

The New

A P P I

Advance Planning Procurement Information



PROGRAM

For

INDUSTRY

U. S. ARMY MATERIEL COMMAND

APPI

ADVANCE PLANNING PROCUREMENT INFORMATION

Army Materiel Command Regulation 715-72

APPI is defined as "information regarding current and future requirements for Army procurement" and is generated by the Army Materiel Command element having procurement responsibility for the item.

The APPI Program consists both of the information which can be classified or unclassified and the mechanics by which the information may be transmitted to industrial sources without endangering the National security or creating a competitive advantage for one or a group of sources.

APPI on any given item is packaged into a single sheet form that includes pertinent historical and descriptive facts; current fiscal year procurement actions; quantities, production rates; availability of technical data; anticipated methods of procurement; and the Army's planned procurements through the following six fiscal years.

APPI is processed and transmitted to interested sources through a network of geographically dispersed Army/Industry Materiel Information Liaison Offices (AIMILO) created for that purpose. Presently AMC has established an AIMILO at each of its major procuring elements: USA MICOM..JSA MUCOM...USA ECOM ...USA WECOM ...USATAC ...USA AVCOM ...USAMEC and in two contact points: Southwest Procurement Agency, Los Angeles and Northwest Procurement Agency, San Francisco.

APPI generated by one procuring element is distributed immediately to all other AIMILOs. A synopsis of the APPI is prepared and published the first Tuesday of each month by U. S. Department of Commerce in the COMMERCE BUSINESS DAILY, P. O. Box 5999, Chicago, Illinois 60680 before the APPI itself may be released. Only then may APPI be mailed by the procuring element to names on its bidders lists or released by other AIMILOs to industrial sources which were alerted by synopsis publication. AIMILOs are furnished also a background data file on each item in order to assist them in servicing "local" industry.

As a result of this new Army program industry may obtain from any one of nine AIMILOs advance planning procurement information at the earliest possible time in the procurement planning cycle and be assured that this APPI is identical with the information being released at any other AMC element or office.

In cases where the APPI is classified the security clearance required to receive such information will be noted in the published synopsis. Proof of appropriate security clearance will be necessary before any AIMILO will release the classified APPI. If interested industries lack appropriate security clearance, they may initiate actions to secure clearance at any AIMILO.

By introducing the APPI Program the Army seeks to place all industry in a far better competitive position by furnishing the most comprehensive future marketing picture ever attempted.

In return the Army expects to acquire products and services at a much reduced cost figure due to increased competition spurred by the APPI Program.

APPI has been received enthusiastically by both AMC participating elements and user industries. Although the Army still is evaluating results obtained so far there seems to be little doubt that an expanded APPI Program will play a major part in the Army's future Industry Information effort.

U.S. GOVERNMENT PRINTING OFFICE: 1965 O 375-323
COMMERCE BUSINESS DAILY

U.S. Government procurement information, including leads, contract award, sales of surplus property and foreign business opportunities.

U.S. DEPARTMENT OF COMMERCE

CHICAGO, ILL. 60607

ADVANCE PLANNING PROCUREMENT INFORMATION
U. S. ARMY

For a complete list of products of the U.S. Army, see the U.S. Army Catalog, 1965, 1st Edition, published by the U.S. Army, Department of the Army, Washington, D.C. 20315.

The U.S. Army is for the purpose of the APPI is for the purpose of the U.S. Army, Department of the Army, Washington, D.C. 20315.

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APPI No. 5 Frequency Meter, AN/TSM-100 frequency data: 20 cps to 1 mc, 0.001 pct accuracy; internal frequency calibrating crystal included; open power req; ac 115v 60 cps single phase; 100, 300, 440 cps single phase case data; aluminum w/brake finish; o/a dim; 21.313 in. lg x 12.281 in. w x 21.313 in. h. case mid. accessories: 1 Frequency Meter FR-114A/U; 1 Adapter, Connector CG-641-U; 1 Case, Test Set CY-2210/U; 1 Cord CG-435-U (6 ft). Confidential clearance required to obtain the APPI. USAECOM.

APPI No. 6 Radio Receiver R-3000(1)/URR: General purpose; fixed or mobile use; provides reception of CW, MCW, AM, FSK and SSB signals in the 0.5 to 32 mc freq range; a/c output power 500 milliwatts; a/c input 115 to 230 volts; receiver calibration accurate to within 300 cycles per second; approx 10-15/32" x 19" x 16-19/32" o/a dim; wt approx 75 lbs per Military Specifications and Government Drawing. Approx 900 drawings are involved and will be available with any solicitation. Production samples, Item Descriptions, etc., are required. FSN formerly 5820-538-7555. Confidential clearance is required to obtain the APPI. USAECOM.

APPI No. 7—Interphone Control C-1611(1)/AIC is completely transistorized basic unit of the 6 place Interphone System containing complete switching facilities, monitoring facilities and emergency talk and listening facilities. Weight of C-1611(1)/AIC is 41.2 pounds, cube is 0.27 cubic feet. Federal Stock No 5831-267-9252 C-1611B/AIC. Confidential clearance required to receive APPI. USAECOM.

APPI No. FA1 Ctg. Cal. .22 Ball, long rifle; a lead bullet, commercial design, contains non-corrosive and nonmercuric primer composition, c/g case is rifle type; FSN1305(A086); no clearance required. FA-USAMUCOM.

APPI No. FA2 Ctg., Cal. .45 Ball M1911 service grade; consists of gilding metal-clad steel or copper-plated steel jacket and a slug of lead antimony; FSN 1305(A475); no clearance required. FA-USAMUCOM.

APPI No. EA1 Compressor reciprocating power-driven flame thrower 3-1/2 CFM AN-M4, FSN 1435-92-8560 and 1040-078-5431. Compressor consists of a flame group, an engine group, a compressor group, and an accessory group, a compressor and valves approximately 72 pounds. Secret clearance required. EA-USAMUCOM.

APPI No. EA3 Decontaminating apparatus power driven truck-mounted 400 gallon M9, FSN 4230-81-8915. Consists of a 400 gallon capacity steel tank with paddle-type agitator, a 20 gallon detergent tank, a high pressure pump, piping, valves, 1/2" truck chassis. Secret clearance required. EA-USAMUCOM.

APPI No. EA4 Filter unit gas particulate tank 20 CFM M13A1. FSN 4240-964-9061. Consists of pre-cleaner-particulate filter assembly, gas filter, heater, various hoses and installation kit. Secret clearance required. EA-USAMUCOM.

APPI No. EA5 Mask protective, Aircraft M24, FSN 4240-828-8793, 4240-776-4384, and 4240-808-1000. Consists of canister, carrier, facepiece, form, hose, ejection antislare outsert, anti-dim seal, and carrying sling. Secret security clearance required. EA-USAMUCOM.

APPI No. PA1 Container for Warhead Section XM83E2 Approximate Envelope of 4x4x15", 2000 lbs. shock mounted, steel weldment. FSN 8140-017-1053. PA-USAMUCOM. Secret clearance required.

APPI No. PA2 Sensitive Switch, XM22. Sealed Cabling and Potted Connector weighs approximately 7 lbs. FSN 8930-034-4297. PA-USAMUCOM. Secret clearance required.

APPI No. PA3 Container for XM467 for Projectile. Aluminum construction with hinged, gasketed cover. Includes compartment for Fuse and Accessories such as Cradles, Clamps, Handles, and Cushioning Material. Overall dimensions, with wood skids attached, 57" long, 22" wide, 20-3/32" high. Inside dimensions are 52.59" long, 16.62" wide, 14.12" high. FSN 8140-020-0462. PA-USAMUCOM. Secret clearance required.

APPI No. AP1 Ammunition Item metal fabrication. Case cartridge 105mm M148B1. One piece design manufactured from spheroidized steel disc, deep drawn, approximately 23.975 inches long by 5.3302 inch outside diameter. Tapered shape, wall thickness varies .085 to .059 inches. Complete heat treated zinc plating and chromate treatment, considered difficult to produce item to applicable specifications. Plant requires highly competent technical staff engineers, metallurgists, chemists, and tool design engineers for mass production of this item. APSA-USAMUCOM. Secret clearance required.

APPI No. AP2 Ammunition Item metal fabrication. Case cartridge 106mm M9311. Assembly 24.0 inches long by 5.148 outside diameter. 1030 steel strip QQ-S-700 perforated, welded to form tube, head assembled and copper brazed to tube. Heat treatment and stress relief must be performed. Considered difficult to manufacture in accordance with applicable specifications. APSA-USAMUCOM. Secret clearance required.

APPI No. AP3 Ammunition Item metal fabrication. Projectile IIE 175mm M437 mpts assembly. Approximately 34 inches long, 10 components, 6.88 inch outside diameter, parabolic shape with tapered base section. Steel ASTM A 273-58T sections 1-14 inclusive for hot forge and heat treat method. Production requires highly technical staff engineers, metallurgists, chemists, and tool designers. Considered very difficult to produce to applicable specifications. APSA-USAMUCOM. Secret clearance required.

APPI No. AP4 Ammunition Item metal fabrication and explosive loaded. Booster M125A1 mpts w/loaded M17 detonator. Approximately 2" diameter by 2" long. Nine components and 6 subassemblies, contains timing components, gear and pinion assembly, escape wheel, pins, rotors, springs, etc. Firm will require competent staff of engineers and tool engineers and ability to produce precision parts and precision assemblies by mass production techniques. Also requires total approval store, handle, load, explosive detonators. Considered extremely difficult item to produce. APSA-USAMUCOM. Secret clearance required.

APPI No. 1 .22 Caliber Rifle (heavy barrel) to be in accordance with Springfield Armory Purchase Description SAPD 143B USAECOM.

APPI No. 2 Caliber Automatic Pistol Training Pistol in accordance with Springfield Armory Purchase Description SAPD 143B USAECOM.

APPI No. 3 Caliber Equipment (1) Laundry Unit, Type, Mounting, Single Trailer Type, M512, in accordance with Security Clearance of Confidential, Springfield Armory Purchase Description SAPD 143B USAECOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated April 6, 1965 page 2 No. PSA 3778 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. 8 Cable Assembly CX-4566A/G (250 ft—) a 26 pair No. 24AWG telephone cable 250 feet long, terminated at both ends in a connector U-185B and wound on steel reel RC435/U. Serves as transmission facility for interconnecting system, control boards, switchboards and carrier equipment. FSN 3805 303 0012. Confidential clearance required to obtain APPI. USAECOM.

APPI-9 Reel Unit RL-207—Reel Unit for payout and pick-up of infantry field wire. Gasoline Engine driven. Designed for truck mounting. Specifications and detail drawings available. FSN 3895-892-4583. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 10 Telephone Field Magneto TA 312/PT a rugged, lightweight, waterproof telephone set for use as a local or common battery telephone station set for fixed, mobile and point-to-point communications. FSN 5805 303 0012. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 11 Antenna Equipment RC-292() Modified Plane type, 20 to 38.9 mc frequency range, fixed, base plate mounted. For general purpose use. Applicable to Radio Sets, except navigation and home types, non airborne weight. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 12 Receiver-Transmitter, Radar RT-744(APX-68 is a major airborne component of Transponder System AN/APX-68 which will be used in DOD low-performance fixed and rotary wing aircraft. Equipment restricted to one cubic foot; weight of complete installation not to exceed 24 pounds; primary power 28 volts OC and 50 watts; transmitter frequency 1090 \pm 3.0 mc; receiver frequency 1030 \pm 0.5 mc. Equipment will be capable of receiving and transmitting in Modes 1, 2, 3/A, 3/C and/or 4, singularly or in combination. Modular construction and primed circuits boards will be used to maximum extent. Confidential term, conforming to Specification MIL-Q-9858 and acceptable to the Government, covering the supplies under contract. Confidential clearance required to obtain APPI. USA ECOM.

APPI No. FA4 Cartridge Clip 7.62mm No. 5-round consists of a channel shaped body containing a spring and holds 5 cartridges. The purpose of this clip is to facilitate the loading of magazines for the 7.62mm rifle, M14. No clearance required. USA Munitions Command-FA.

APPI No. FA5 Metal Boxes, M2A1, M19A1 and T46 are reusable steel boxes having hinged covers sealed by means of a rubber gasket. These containers are used for packing small arms ammunition and are designed to withstand all conditions commonly encountered in handling, storing and transportation of ammunition. No clearance required. USA Munitions Command-FA.

APPI No. FA6 Bandoleers M2 and M4 are olive drab cotton cloth containers used for holding either linked or clipped 7.62mm ammunition. No clearance required. USA Munitions Command-FA.

APPI No. PA4 Switch, Rotary XM21. Switch which provides for a selection of burst options housed in an aluminum box and weighs 3 lbs. FSN 5930-966-8930. No clearance required. PA/USAMUCOM.

APPI No. AP5 Ammunition Item Metal Fabrication. Case Cartridge 105mm XM 150B1 one piece design 24.31 inches long by 5.133 inches outside diameter at base tapered to 4.115 inches at mouth threaded and counter-bored primer hole in base. Fabricated from a spherulized 1030 steel disc. Case is fully heat-treated zinc plated and chromate treated. No clearance required. USA Munitions Command-APSA.

APPI No. AP6 Projectile Body and Band Assembly M374 81mm Mortar 10.403 inches maximum length. Consists of four (4) parts body 9/16 inches long by 3.182 inches diameter near center pearlitic malleable iron. Yield strength 50,000 PSI minimum 7 percent set elongation at 0.1 percent offset. Adapter base 1.26 inches long by 1.8 inches maximum diameter material carbon steel. Cover base 1.02 inches diameter by .0209 inches thick cold-rolled carbon steel strip brazed 360 degrees. Body requires 100 percent ultrasonic inspection and magna test. Band obturating 3/4 inches diameter by .1875 inches thick plastic pipe. Body requires phosphate coating prior to application of paint. No clearance required. USA Munitions Command-APBA.

APPI No. AP7 Projectile WP Smoke M3, 75E2 Body and Band Assembly MPTS 81mm Mortar consists of three (3) components 10.028 inches long by 3.184 diameter nose and tapered to 2.595 inch outside diameter base end 1.835 inch outside diameter with varying wall thickness pearlitic malleable iron. Band obturating 3.5 inch outside diameter by 2.895 inch inside diameter by .1875 inches wide material pipe plastic adapter base 1.26 inches long by 1.8 inch maximum diameter one end threaded 1/4 inch material carbon steel alternate pearlitic malleable iron. Adapter is brazed 360 degrees or welded if steel is used. Body casting requires 100 percent ultrasonic and magnetic particle inspection. Finishing cleaning zinc phosphate base exterior—lusterless enamel or lacquer interior acid resistant paint. No clearance required. USA Munitions Command-APSA.

APPI No. 2 Generator Set, 1.5 KW, O. C., Gasoline Engine Driven, Air-cooled 28 Volt, 2 Wire, fully enclosed by tubular frame, shock-mounted, in accordance with Military Specifications and Drawings. A military standard engine model 12A016-2 will be used. The Generator, including the engine and frame, shall have a minimum efficiency of 72 percent at normal ambient temperature. The successful contractor shall provide and maintain an effective quality control system. Clearance required to obtain APPI. USA-COM.

APPI No. 1 Shelter, Electronic Test Group #3, as defined by Missile Interim Specification (MIS) 5707—Revision A. For use as protective and operating facility for missile electronic test equipment, repair equipment and technicians. Outside dimensions: L. 163 in., W. 83 1/2 in., H. 87 in. Gross Weight: 1850 lbs. (max.). Laminated foam aluminum construction. This equipment presently under development by RCA, Burlington, Mass. Engineering data and specifications will not be available until approximately June 1966. No FSN assigned at this time. Confidential clearance required to obtain APPI. Secret clearance required to produce the item. USAMICOM.

APPI No. 2 Bistatic Radar Reflector (Luneberg Lens) as defined by Missile Interim Specification MIL-10044A, to be used to track the radar tracking capabilities of a Guided Missile Target. For use with the only radar target sphere must be 10 1/2 inches in diameter and not exceed 9 pounds. For dimensions and other usages, refer to above MIL-10044A. Item is presently being manufactured in a form of polystyrene. No Federal Stock Number Assigned. No clearance required to obtain APPI. USAMICOM.

APPI No. 3 Radar Beacon, X-Band, as defined by Missile Interim Specification (MIS) 10077, dated 30 March 1965, to be used for tracking purposes with MQM-34D Guided Missile. Design and construction of the beacon shall be in accordance with the provisions of Specification MIL-E-10044A. The beacon shall be given emphasis on compactness. Dimensions including mounting shall be of a cylinder having 5 1/2 inch diameter and a depth of 11 inches. Weight: 5.5 pounds. External cables and associated plugs. Clearance required to obtain APPI. USAMICOM.

APPI No. 1 Trailer, Cargo, 1 1/2 Ton, 2 Wheel, M105A2. Confidential clearance required to obtain APPI. USATAC.

APPI No. 2 Trailer, Cargo, 1 1/2 Ton, 2 Wheel, M416. Confidential clearance required to obtain APPI. USATAC.

APPI No. 1 Trailer, Ammunition, 1 1/2 Ton, 2 Wheel, M105A2. Confidential clearance required to obtain APPI. USATAC.

APPI No. EA6 Agent, Riot Control, CS 1, FSN 1365-690-8655. Irritant chemical agent which causes severe, but not permanent physiological effects. Used in grenades and irritant dispersers for riot control. Secret clearance required. EA-USAMUCOM.

APPI No. EA7, Mine, Gas, Persistent VX, 2 gallon M23, metal parts, FSN 1345-542-1580. A cylindrical pressure type steel container 12 1/4 inches in diameter x 5 1/4 inches high. Secret clearance required. EA-USAMUCOM.

APPI No. EAB Cryptographic equipment Destroyer Incendary, TH4, M1A2 FSN 1375-834-8884. Equipment destroyer is a sheet metal box 21 inches long, by 15 inches wide, by 1 1/4 inches deep, filled with Thermite Incendary mix, fitted with one manual and two electric incendary fuzes. Secret clearance required. EA-USAMUCOM.

APPI No. EA9 Fire Destroyer, Incendary, ABC, M4, FSN 1375-219-8564. Incendary set consisting of 44 celluloid oxidizer boxes, 4 igniter boxes fitted with electric squibs; and 4 racks made of metal links. Secret clearance required. EA-USAMUCOM.

APPI No. FA3 Metallic Belt Links, M13, M14A1 and M17A1 are used with caliber .30, 7.62mm and 20mm cartridges in machine guns. The links are made of steel, processed for rust prevention and are required to meet specific test requirements to assure satisfactory ammunition feed and functioning under all service conditions. No clearance required. USA Munitions Command-FA.

APPI No. 3 Generator Set (Military Standard), 10 KW, 60 Cycle, AC, single phase, 28 volt, 120 Volt, single phase, 3 phase, 120/208 Volt, 3 phase, 120/208 Volt. Full time power, powered by Government standard 10 HP, Air-cooled engine. Confidential clearance required to obtain APPI. USAMECOM.

APPI No. 4 Generator Set (Military Standard), 5 KW, 60 Cycle, AC, single phase, 28 volt, 120 Volt, single phase, 3 phase, 120/208 Volt, 3 phase, 120/208 Volt. Full time power, powered by Government standard 10 HP, Air-cooled engine. Confidential clearance required to obtain APPI. USAMECOM.

APPI No. 3 Mortar 107mm XM95 high angle fire weapon capable of firing an anti-personnel, anti-material screening and illuminating rounds.

The weapons system consists of the XM96 cannon, the XM41 recoil mechanism, the XM130 mount, and XM6 baseplate. Security clearance of Secret is required to obtain APPI. USAWECOM.

APPI No. 1 Generator Tachometer. Electrical output data, 21V AC, at 4200 RPM, 1 cycle per revolution, 25 ohms internal res, 810 MA max current capacity; 2 rotor poles; accuracy PORM 5 PCT; 150 RPM min, 4200 RPM max operating speed range; dim data, 3.750 in. lg. excl shaft, 2.375 in. w, 3.469 in. h, shaft extends .312 in. from end of inclosure; end mtg, 4 holes, .283 in. dia, on 1.750 in. w across flats; terminal data, 1, connector receptacle type, right angle; shaft data, sq, .312 in. w across flats; MIL-G-9398A, Amend. 2, Type MB-6; Appl. Generator, Tachometer, Engine. Confidential clearance required to obtain APPI. USAAVCOM.

APPI No. 4 Reel, Shoulder Harness, Inertia Lock. Shall be unidirectional type, left hand reel, 18 in. length of cable travel on drum, designed for 3/16 in. dia. cable, with shoulder harness attachment cable, 22 1/4 in. extended length, with manual lock control assembly. Confidential clearance required to obtain the APPI. USAAVCOM.

APPI No. 5 Shipping and Storage Container, Main Rotor Hub, (Helicopter). Aluminum construction, sealed with gasket, complete with relief valve and humidity indicator. 275 lbs, overall dimensions, 73 in. L, 32 in. H, 33 in. W. 100% Small Business set aside. Confidential clearance required to obtain the APPI. USAAVCOM.

APPI No. 2 Light, Landing, Aircraft, Control-lable, 28V DC, Type MA-5. No electrical rating data for Light; Lamp Accommodation data, 1, screw terminal base, retractable type, 120 deg. angle of extended position, lamp lights at fully extended position, retracting motor and switch incl; O/A dim, 1134 in. lg, 6 1/2 in. w, 4-3/16 in. h; mounted by four .178 in. dia holes irregularly spaced. Confidential clearance required to obtain the APPI. USAAVCOM.

APPI No. 3 Indicator, Pressure. Dial data, 1 scale, hydraulic pressure, 0 PSI to 4000 PSI, 100 graduated increments, finish of graduations, fluorescent numerals and lined increments, 1-13/16 in. dia, dial; pointer data, clock-hand type, fluorescent illuminated; encased, W/O instrument, lamp socket; electrical data, AC, 26 V, 400 Cycles, single phase; connection data, 1 electrical connection, 4 contacts, AN-3106-14S-2S; O/A dim. and mtg per MIL-I-7084, Amend 1. MS-28010-5. Confidential clearance required to obtain the APPI. USAAVCOM.

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APPI No. 13 Communication System AN/USC-3 is a mobile SSB radiotelephone system operating in the frequency range of 132 to 165 mc. It consists of 1 communication central and up to 2 to 48 subscriber stations. Teletype, facsimile radio relay and two (2) or four (4) wire phone lines can be used. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 14 Radio Teletypewriter Set AN/ORC-142 is a 34 ton, shelter mounted Radio Set providing SSB, voice, CW and Radio Teletype Communication. Frequency range 2.0 to 29.999 mc in 1 KC steps. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 15 Radio Set AN/PRC-62 is a man-packed SSB set which provides communication between combat units. The set is continuously tunable in one (1) KC steps over the frequency range of 2 through 18 mc providing 16000 channels, operating power 12 V DC. Equipment is capable of vehicular operation. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 16 Radio Teletypewriter Set AN/GRC 108 is a 34 ton shelter mounted Radio Set providing full duplex capability for SSB voice, CW and Radio Teletype Communication. Primary power 115/230V, 50-60/400 AC, Frequency Range -2.0 to 29.999 mc in 1 KC steps. Confidential clearance required to obtain APPI. USAECOM.

11265543) This is a missile telemetry device
includes Doppler Velocity Position and
switching network Instrumentation
and Electronic Instrumentation
on the complete telemetry
the missile. No Federal
USANICOM. No clearance required to

PPI No. 14 Adapter Kit, Erector Launcher, consisting of a carrier steady rest two chassis jack retainers and supports a rear beam assembly two erector-launcher rear axle lock assemblies, guides and bumpers. The carrier steady rest that supports the main rest approx. 54 in. in. m. The lower support of the steady rest of the erector two mounting bases located at the carrier by quick release pins. The chassis jack ball ox. 1 1/2 in. dia. are of steel construction of the erector-launcher in size and hold the ball retainers have four clamps that are actuated by a four lobe cam ring. The cam ring is operated by a lock handle that can be rotated to open or close the clamps. The rear beam assembly is of aluminum construction approx. 53 x 10 x 12 in. in

target. This cable is covered by Military Spec. MIL-T-23439. All other Products List 23439. No Federal Stock Number assigned. NO clearance required in re-
ceive AIA. USAMCOM.

APPI No. 10 Indicator, Electrical Tachometer. Panel mtg., 0 to 110 PCT O/A range, 100 PCT equals 4200 RPM, 1 scale, PCT RPM, 0 to 100 range of numerical marking, 2 PCT smallest increment, major and minor graduations fluorescent treated, 1 scale, PCT RPM, 0 to 9 range of numerical marking, 1 PCT smallest increment, major & minor graduations fluorescent, 2 pointers, rotating hand type, fluorescent treated, case, rd shape, O/A dim., 2 in. dia., 4-1/4 in. deep, 1 electrical connection, 3 pin contacts, and INDEP0066-10SL-3P, operating mechanism per SPEC, MIL-1-25623, TYPE MU-1, flush mtg., MIL-1-25623, TYPE MU-1, appl, engine instrument, acft. FSN 6620-557-3023. No clearance required to obtain APPI. USAVCOM.

APPI No. 11 Indicator, Pressure. Dial, 1 multi-purpose pressure scale, 0 to 50 PSI, 1 lb graduated increments, letters, numerals, & lined increments, fluorescent, pointer, clock-hand type, fluorescent illuminated, encased W/O instrument lamp socket, electrical, 26V AC, 400 CY, single phase, 1 electrical connection, 4 pin contacts, AND10066-14S-2P, O/A dim., 3 in. L, 2 in. dia., panel mtd, 1.93 in. dia of body, appl., indicator, pressure, engine instrument. Govt Std Data MS28010-1, FSN 6620-514-5334. No obtain APPI. USAACVCOM.

clearance required to obtain APPI, USAAVCOM.
 APPI No. 12 Indicator, Temperature, Electrical
 Resistance, Dial, 1 scale, temp, minus 70 deg. C,
 plus 150 deg. C, 50 deg. graduated increments, finish
 of graduations, fluorescent letters, numerals, 1
 lined increments, clock hand pointer, fluorescent 24 hr
 terminated, encased W/O instrument lamp socket, 24 hr
 28V DC, 1 electrical connection, 4 pin contacts,
 AND10066D-14SS-2P, D/LA 8009, 3.39 in. L, 2.00 in
 dia, clamp mtg. MIL-MS22809, MSS6685-11. FSN
 6685-557-0370. No clearance required to obtain
 APPI, USAAVCOM.

APPI No. 14 Indicator, Pressure. Oil pressure scale, 0 to 100 PSI, 5 PSI graduated increments, finish of graduations, fluorescent numerals, letters and lined increments, 1 clock hand type fluorescent illuminated pointer, encased, W/O instrument lamp socket, 26V AC, 400 CPS, single phase, 1 electrical connection, 3 pin contacts, AND10066C-10SL3P, O/A dim, 2-5/8 in. L, 2 in. dia, clamp mtg., MIL-1-25438, Type MO-2, Appl engine instrument, aft. FSN 6620-557-0582. No clearance required to obtain APPI. USAACOM.

APPLI. USAAVCOM. Direct Current. Shunt wound type, self-excited, power output data, 9 KW rating, 30V, 300 AMP, current rating, 4500, 6500 RPM rated speed, CCW rotation when viewed from drive end, enclosure data, closed frame, temp. data, 60 deg. C ambient, not rated for temp. rise. H. data, 11.186 in. L, excl shaft, 5.90 in. W, 8.000 in. D, shaft extends 6 in. from end of inclosure, shaft data, splined shaft data, 0.867 in. dia., flanged mtg. data, 6 holes, 0.406 in. dia., equally spaced on 5.000 in. circle, 20,000 ft. max. operating altitude, MIL-G-6162, USAF DWG 58C6226, Gov't Type data, USAF Generators, DC, Type GEU-57A, FSN 6115-725-1790. No clearance required to obtain APPLI. USAAVCOM.

APPI No. 16 Tail Pipe Assembly, Engine Exhaust
FSN 2990-767-9212, Procurement Package 204-060
302, Code Identification 81996, FSN 2990-767-9212
No clearance required to obtain APPI, USAAVCOM

APPI No. 8 Canceled. Wheel-mounted. Description: 1 ton, 113 cubic foot, 10 feet radius; 3 inch wheels, 8 inch disc, 4x4 rough terrain. 1965, 52341 (MO). (Revision: 30 Dec. 1965). Confidential clearance required to obtain APPI. USAMECOM.

APPI No. 9, Generator Set, Diesel Engine, Description: 45KW, 3 Phase, 3 Wire, SCL-20/208, 347V, 60 Hz, 3 Pole, 111515338-8776; Purchased at Auction April 1963. Limited General Military Spec. by 31 Dec. 63). Confidential clearance required to obtain APPI, USAMECOM.

APPI No. 10 Generator Set, Gasoline Engine. Description: 7.5 KW, 28 VDC, Wheel Mounted, FSN 6115-511-22-0. **UNCLASSIFIED** (New Limited Control) Military Use, by 30 June 1965). Classified as required to obtain the APPI from USARECOM.

APPI No. 11 Searchlight. Description: DC, 28V, 100 AMP; XENON Type; Infrared filter; 22-15/16 inch reflector; MFO for 1 inch and M500 tank, FSN 6230-740-3280. Purchased by the U.S. Army, 28 Feb. 1964 with Eqs. and accessories. That 10, 4a, 1b, and 13 April 1964 and 13 April 1964. The U.S. Army, 30 June 1965). Confidential clearance required to obtain the APPI. USA-MECOM.

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated June 1, 1965 page 2, No. PSA 3817 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. 15 Division Hawk Self Propelled Platform Fabrication of Generator Maintenance Equipment-Groups include new and modified items of ground and aerial test equipment. No Federal Stock Number assigned. Intended for use by sub-contractors, purchases only. SECRET clearances required to obtain APPI. USAMICOM.

APPI No. 16 Division HAWK Self Propelled
Moon Retrofit for continuous Wave Acquisition Radar
This includes mounting of an Acquisition Friend
or Fre Antenna assembly on the Continuous Wave
Acquisition Radar for the localization of the
CWAR target and the target's transmission.
Federal police are not authorized to use after
sub-contracting to obtain APPI. ONLY. SECRET clear
source ready to obtain APPI. USAMICOM.

APPI No. 17 Division HAWK Self Propelled Power
toon Retrofit for High Power Motor Radiator
Provides Mounting bracket for various electronic
assemblies approx. 10" x 10" x 10" in size and
includes various electronic components and controls. The control
box is about 10" x 10" x 10" in size. No Federal
Stock Number assigned. Synopsized to afford sales
contracting opportunities only. SECRET Clearance
required to obtain APPI. USAMICOM.

APPI No. 18 Division Hawk Self Propelled Platoon Fabricator of Missile Control and Checker. This item consists of fabrication of electronic controls, displays, and other necessary electronic checkout and test of the Hawk Missile. The approximate dimensions are 10' x 10' x 10'. No Federal Stock Number has been assigned to afford sub-contracting opportunities. ONLY SECRET clearance required to obtain APPI, USAMICOM.

APPI No. 19 Division HAWK Self Propelled Platoon Retrofit for Launcher. This Retrofit Kit will include repackaging of the standard HAWK Launcher Electronics for mounting on a tracked vehicle of the M13 family with various hydraulic and structural modification. No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. SECRET clearance required to obtain APPI. USAMICOM.

CANCELLED

APPI No. 21 Cable, Tow Target, 2000 feet per
tow target, used on the TOWBEE (MQM-34D)

APPI No. 12 Battery, storage, 12 volt, 6 cell, 45 amp, dry charged, type 6 TN; FSN 6140-057-2554. No clearance required to obtain APPI. USATAC.

PPI No. AV-18. Indicator, Temperature, Thermopile, Dial, 1 Scale, Temp. 0 Deg C to 1000 Deg

PI No. 5 Armament sub-system, helicopter, 40
grenade launcher M-5. The M-5 consists of a
power operated turret (nose mounted on the
(1) (f) (1) helicopter with ammo boxes,
chuting, controls, M-75 grenade launcher
remotely directing the firing of the
SECRET clearance required to obtain

8

APPI No. MI-33. Track Radar Sensitivity Modification Kit: Necessary hardware to modify track radars to improve range sensitivity to provide longer range tracking. No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. Inquiries should be made direct with Western Electric Company, Burlington, N. C. No clearance required to obtain this APPI. USAVICOM.

APPI No. MI-34. Radar Set, AN/MPQ-43 (Mobile HIPAR) p/n 9999000 consisting of 5 major components: (1) Antenna, (2) Transmitter Set, (3) Receiver Set, (4) Control Console, and (5) Power Plant. Each component is mounted on a semitrailer. No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. Inquiries should be made direct with General Electric Co., Syracuse, N. Y. No clearance required to obtain APPI. USAVICOM.

APPI No. AV-24. Transmitter, Pressure, Electrical, AC, 26 V, 400 cycles, single phase. Connection, electrical, 1/4 contacts, Pin, contacts, MS, 33678-14S-2P, other than electrical connections, 2, as per AND10049-4, Bourdon Tube, 0 to 100 psi measurement range o/a dim., 4-1/4 in. lg., 2-7/16 in. dia., mtg., 4 attaching points, Holes, MIL MS28130, FSN 6685-840-8606. No clearance required to obtain the APPI. USAVICOM.

APPI No. AV-25. Cutout Relay, Engine Generator. Designed for 28V System, 300 Amp max operating current, neg ground polarity, 18 V cut-in, 7 V cutout voltage, 5 amp cutout current, w/enclosure, 5 stud terminals, 4 plain mtg. holes, 196 in. dia., 3 in. mtg. centers, fungus resistant. MIL-C-5026B, FSN 2925-555-5349. No clearance required to obtain the APPI. USAVICOM.

APPI No. EA-18. Flamethrower, portable, M9-7. FSN 1040-772-5245. The M9-7 Portable Flamethrower is used as an antipersonnel weapon. No security clearance required to obtain APPI. EA-USAMUCOM.

APPI No. EA-19. Grenade, hand, smoke, HC, AN-M8, FSN 1330-219-8511. The AN-M8 HC Smoke Hand Grenade is used to generate white smoke for screening and signaling. No security clearance required to obtain APPI. EA-USAMUCOM.

APPI No. AP-29. Cartridge, illuminating, 81MM, M301A2, loading assembly. Consists of 4 assemblies and 6 additional components, 14.335 inch long x 3.18 inch max diameter. Cup & disc assembly: 3 components, cup, pullicord, material sheet boxboard. Disc, coupling, material, steel strip, temper No. 2. Eyelet, rolled flange. Cup parachute (2 each) cup segment, material, sheet boxboard. Disc, parachute, material, sheet chipboard. Pin, shear (4 each), cone-shaped point, material, brass wire or rod, quarter hard. Spacer, (2 each) parachute, material, strip steel. Protective plugs. Projectile: 4 components. Tube varying diameters, material, seamless steel tubing. Adapter, internal thread, material, steel bar. Tail cone, varying wall thickness, material, steel bar for hot forge. Adapter Pin, tapered end, material, bar steel. Illuminant assembly: 12 components. Case loading assembly case, charge (4 increments). Discs (chipboard & steel). Felt spacer. Ring, filler (soft wood or plywood). Oval sleeve (Zinc Plated Copper). Suspension wire assembly: cable, preformed steel. Suspension Cup, (steel strip). Disc (Strip Steel). Rivets, nails. Parachute Folding Assembly: Disc (chipboard). Parachute Assembly, 3 components. Gore, (8 each) and crown (parachute cloth). Shroud lines (8 each), (nylon cord). Parachute Holder Assembly, 4 components. Eyelets, protective plug, oval sleeve and nails available commercially. Firms bidding on item should have staff including chemists, metallurgists, and tool design engineers. Item considered extremely difficult to manufacture. No security clearance required to obtain APPI. APSA-USAMUCOM.

APPI No. AP-30. Projectile, High explosive 4.2 inch, M329A1, metal parts, 16.395 inch max length x 4.193 inch max outside diameter. 3-piece design. Consists of body, 3.73 inch inside diameter tapers to 3.062 inch nose opening, material, non-resulphurized steel tube, Adapter Nose, (non-resulphurized steel) threaded. Base, L. H. thread on one end (non-resulphurized steel). Each component must have minimum yield strength of 45,000 lbs. PSI at .1 percent offset. Interior and exterior cleaned and phosphatized. Lusterless enamel or lacquer on exterior must withstand 144-hr salt spray. Item considered difficult to manufacture. No security clearance required to obtain APPI.

APPI No. AP-31. Fuze, mechanical time super-quick, M564. Approx. 2.4 inches max diameter x 5.816 inches long, procured detonator & relay loaded. Complete assembly consists of approx 166 components. Major Components: Body, 2.4-inch diameter x 1.33-inch long, various counterbores, threads, holes & slots (brass). Lock ring, 24 thread outside diameter, two .20 slots one side (stainless

steel). Head 1.610 inch outside diameter tapers to approx .55 inches, several counterbores, partial thread (aluminum alloy or aluminum alloy die casting). Adapter, 1.377-inch long x 1-inch diameter, thread both ends, (aluminum alloy or aluminum alloy die casting). Booster Cup, .825-inch long x 1.703-inch outside diameter, 1.536-inch inside diameter, .761-inch deep, L.H. thread in mouth (aluminum alloy). Closing plug, various holes & counterbores (aluminum). Housing, 1.884-inch diameter x 1.625-inch long, 1.67-inch counterbore, 1.167 inch deep, various holes, 1-inch 20 thread inside one end (stainless steel). Lower cap, 2.185-inch diameter tapered to 1.585 inch, various holes and counterbores, outside diameter graduated from zero (aluminum). Body, various counterbores & precision holes, 1.74-inch 20 thread outside, 1.60-inch 20 thread one end (brass) other small components include gears, pinions, shafts, springs, bushings & "O" rings. Subassemblies and assembly must withstand rigid tests including arming, jolt, vibration, waterproof, 40-foot drop, dynamic regulation at 6000 RPM, and ballistic. Manufacturer requires highly competent metallurgical and engineering staff. Item considered extremely difficult to produce. No security clearance required to obtain APPI. APSA-USAMUCOM.

APPI No. 32. Projectile, high explosive, 105MM, M442, metal parts, approx 20.422 inches long x 4.223 inch diameter. Four components body, approx 14.03 inch long x 4.238 inch outside diameter at one end tapering to 2.38 inch at nose. Inside diameter varies from 3.105 inch at larger end and up to 3.505 inch tangent to 24-inch radius tapering down to 2-inch thread at nose. Material, iron, pearlitic malleable casting, Spec MIL-C-46971, minimum yielding strength of 70,000 pounds PSI with 2 per cent minimum elongation. Base, approx. 5.67-inch long x 4.128-inch outside diameter tapering to 3.547 inch boattail (steel). Rotating band blank (sintered iron). Plug, 1.97-inch long x 2.412 inch outside diameter, 2-inch external thread one end & 1.25-inch hexagon head on other (aluminum alloy die casting). Base silver brazed to body. Assembly must withstand hydrostatic pressure test of 6100 pounds PSI & air pressure test 150 pounds PSI. Base forgings and body castings require heat treatment. Inspections: Base & body magnetic particle; body casting, ultrasonic. Ballistic tests for separation or breakup of projectile metal parts. Producers require highly competent metallurgists, engineers & tool designers. Item considered extremely difficult to produce. No security clearance required to obtain APPI. APSA-USAMUCOM.

APPI No. 33. Mine, APERS, M18A1, parts arrangement. 8.464-inch long x 3.968 inch wide x 4-inches high with leg & bracket assembly, 12 components. Ball, (700 each), .221 spherical diameter, steel bar or wire heat treat to surface hardness of rockwell C43 to C52. Case, one piece, 8.464-inch long x 3.968-inch wide x 1-3/8 inch high on curved radius x 7/8 inch added width for sighting section. Material, plastic, polystyrene glass filled. Type I, Spec MIL-MF-21347. Cover, same material as case, segments of case & cover have varying wall thicknesses. Angle Bracket, (2 each) right angle, legs .705-inch long x .52-inch wide x .125-inch thick, two .196 inch diameter holes. Material, hot rolled steel strip. Leg, (R4 each) 4.398 inch long x .265 wide x .125 thick with .64 inch diameter one end (strip steel). Shipping, plug, priming adapter, eccentric shape, threaded both ends, .25-inch hole one end, .32-inch hole opposite end (plastic). Other components include spring

washers, rivets and well cups. Balls bonded inside case using deconvon B-1835 in a matrix. Stringent load requirements for case and cover plus rigid hot & cold temperature conditioning and testing. Requires high fabricating process capability and metallurgists, plastic technicians and engineers. Considered extremely difficult to produce. No security clearance required to obtain APPI. APSA-USAMUCOM.

APPI No. 34. Projectile, 4.2-inch WP, smoke, M328A1. Six basic components. Body, prime component, approx 16-inch long, tubular in shape, approx 4.2 inch diameter. Closed end forms base which has protruded threaded boss approx 1-inch diameter x 1/2 inch long. Indicates forging process. Material, steel, non-resulphurized, special bar quality. Spec ASTM A107. Vane, approx 13-1/4 inch long x 1/16 inch thick, metal, stamping of steel strip, ASTM A109. Has 16 holes and notches, center section forms holder for burster casing. Ends of short dimension of stamping formed in "S" pattern. Nose adapter, approx 2-inch long, max diameter 2-7/8 inch, forged in funnel-type shape. Material same as body. Burst Case, approx 13-3/4 inch long x max diameter 1-3/16 inch, minimum diameter 7/7 inch. Material, steel bar ASTM A108. Alternates (Require silver brazing) steel carbon plate, steel sheet & strip & seamless steel tubing. Also requires plastic protector caps for nose & base. Considered difficult to produce. No security clearance required to obtain APPI. APSA-USAMUCOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of dated October 5, 1965 page 2, No. PSA 3905 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. MI-35. Improved HERCULES Modification Kit consists of a Target Ranging Radar Antenna mounted on GFE 4 wheel flat bed trailer, weighing 12,800 lbs; Radio Frequency Detector weighing 12 lbs; Auxiliary Acquisition Cabinet (Control-Interconnecting Group) weighing 225 lbs; Target Ranging Radar Control Receiver-Transmitter Cabinet weighing 830 lbs. plus additional hardware kits. No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. Inquiries should be made direct with Western Electric Company, Burlington, N. C. CONFIDENTIAL Clearance required to obtain this APPI USAVICOM.

APPI No. MI-36. REDEYE Tri-Pack Containers, physical dimensions approximately 55" long, 19-3/4" high, 21-1/4" wide, weight 68 lbs. empty. The container, which accommodates three complete REDEYE weapons and two 12-volt batteries, is of vacuum-formed plastic, epoxy-polyethylene construction, and is designed to protect the weapon during all modes of transport, including airdrop. It is equipped with carrying handles and quick-opening top. Due to changes and updated information, this APPI cancels and supersedes MICOM APPI No. MI-22. No Clearance required to obtain this APPI. USAVICOM.

APPI No. MI-37. Shelter Electronic Test Grc #3, as defined by Missile Interim Specification N 5707-Rev A. This shelter is for use as a part Multi-System Test Equipment (MTE) to provide protective and operating facility for missile electron test equipment, repair equipment and technician. Outside dimensions: L. 163 in., W. 83-1/2 in., H. 11 in., Gross weight: 1850 lbs (Max) Laminated for aluminum construction. Due to changes and updated information, this APPI cancels and supersedes MICOM APPI No. 1. Confidential clearance required to obtain this APPI. USAVICOM.

APPI No. AT-22. Battery, 2H, 6 Volts, Storage Type, Dry Charged (Standard Type), FSN 6140-050-0902. No clearance required to obtain APPI. USA-TAC.

APPI No. AT-23. Tire Chain, Single 9.00 x 16 Type TS, FSN 2540-054-0022. No clearance required to obtain APPI. USATAC.

APPI No. AT-24. Transmission Assy, 2-1/2 Ton, FSN 2520-884-4833. No clearance required to obtain APPI. USATAC.

APPI No. AV-26. Pump, Rotary, Power Driven, Vane Type, Horizontal Design, 1.7 GPM, max rated capacity, 2500 RPM, at max rated capacity, 15 PSI max discharge pressure, not rated for total dynamic head, w/integral relief valve cw rotation, inlet connection, 1 thd type connection, 1-2 in. npt, 1 thd type outlet connection, 1-2 in. npt, unmounted, w/o power unit, appl, delivers fuel under pressure o aircraft engine carburetors, MIL-P-5355, Type G18, appl, Fuel System, Engine, Acft, FSN 2915-810-7036. No clearance required to obtain APPI. USA-AVICOM.

APPI No. AC-27. Kit, Repair, Minor Steerable Tailwheel, Appl, U-6 Aircraft, FSN 1630-855-9071. No clearance required to obtain APPI. USA-AVICOM.

APPI No. AV-28. Bearing Assembly, Flap, Torque Tube, Appl, U-6 Aircraft, FSN 1560-307-0051. No clearance required to obtain APPI. USA-AVICOM.

APPI No. ME-37. Case, water cooled, mounted; 5 ton at 10 ft radius, 1000 hp diesel engine driven; 4x4, all wheel drive; 10 ft turning radius; 1 ea, blade, bulldozer; 1 ea, blade, grader; 1 ea, blade, scraper; 1 ea, blade, motor grader; 1 ea, blade, motor grader; 24 feet, 1 ea, blade, motor grader; 2220, size 1, FSN 3810-828-445-10. No clearance required to obtain APPI. USAMEC.

APPI No. ME-38. Conditioner, floor mounting, air cooled, 1000 hp diesel engine driven; electric motor; 1 ea, 24 ft turning radius; 3 phase 60 cycle; 5000 rpm; 1 ea, 24 ft turning radius; MIL-A-52250A(MC) FSN 4120-739-4321. No clearance required to obtain APPI. USAMEC.

APPI No. ME-39. Air conditioner, floor mounting, air cooled, 1000 hp diesel engine driven; electric motor; 1 ea, 24 ft turning radius; 3 phase 400 cycle; 5000 rpm; 1 ea, 24 ft turning radius; 25,000 BTU heating; 1 ea, 24 ft turning radius; FSN 4120-791-9459. No clearance required to obtain APPI. USAMEC.

CANCELLED
CANCELLED

Manufacturer required engineers, metallurgists, tool designers. Item considered extremely difficult to produce. No clearance required to obtain APPI. APSA-USAMUCOM.

APPI No. AP-37. Ammunition Item—Case, cartridge. 106 MM. M94B1. Assembly 24 inch long x 3.44 inch outside diameter at base. Two major components: Tube approx 23.65 inch long x 4.698 inch outside diameter tapering to 4.32 inch at mouth; wall thickness varies from .120 inch at base to .075 at mouth; steel strip is perforated with 1160 holes .312 inch in diameter and welded to form tube which is copper brazed to head. 5.138 inch diameter x .91 inch long. .8074 inch diameter primer. Special bar steel heat treatment and stress relief required. Assembly has baked varnish finish after phosphatizing. Case considered difficult to produce. No cleaning required to obtain APPI. APSA-USAMUCOM.

APPI No. AP-38. Ammunition Item—Fuze, green hand, practice M264A2 (loaded). Consists of eleven components and five assemblies. Body, approx 2.1 inch high x .81 inch wide x 1.7 inch long. Zinc type of aluminum alloy die casting. Lever, formed approx 1.7 inch long curved section by right angled up section approx .7 inch long x 24-GA. steel strip steel. Pull ring assy: Cotter pin, steel wire, pull ring, rubber washer. Detonator assy: Case 1.7 inch long x .243 OD x .035 inch thick wall strip aluminum alloy. Igniter charge—lead styphnate. Upper charge, lead azide, lower, RDX or Tetryl. Primer holder assy (2 components). Percussion primer assy M42, cup, anvil and cover. Charged with PA-101 primer composition or alternates. Striker assy 4 components: Striker, hinge shape, strip steel. Hinge pin 5/16 inch diameter x .25 inch long, bar steel. Hinge pin 67 inch long x .157 OD bar steel. Spring 42 inch long x .28 diameter, steel music wire. Protective finish, cadmium or zinc plate. Manufacturers require engineers, chemists & tool designers familiar with pyrotechnic manufacturing. Item considered somewhat difficult to produce. No clearance required to obtain APPI. APSA-USAMUCOM.

APPI No. AP-39. Ammunition Item—Projectile, chemical, 155MM, M121E1 metal parts assy. Six components. Body, approx 23.75 inch long x 6 inch diameter, nose section threaded & precision finished with 16 to 32 micro-inches, steel. Fuze adapter, 2.4 inch diameter x 2.23 inch long x 1.909 inch inside diameter, external & internal threads, steel (special bar or tubing). Rotating band, 6.36 inch diameter x 6.69 inch inside diameter x 1.075 inch wide. Material, gilding metal. Gasket, neoprene rubber VCI paper approx 20 inch square. Rubber shipping gasket. Magnetic particle inspection in nose section each projectile required. Each must withstand helium gas test. Projectiles packaged on wood pallets for shipment. Item considered very difficult to produce. No clearance required to obtain APPI. APSA-USAMUCOM.

APPI No. AP-40. Ammunition Item—Case, cartridge, 105MM, M14B4, assy metal parts, 4.211 inch maximum outside diameter x approx 15.64 inch long. Three components: Body, 14.142 inch long x 4.211 inch maximum outside diameter at mouth. Material cold-rolled steel, .024-.006 inch thick. Body wrapped from trapezoidal blank to provide three thicknesses of metal at base and one thickness at mouth (overlap at mouth). Base 4.688 inch outside diameter x .55 inch thick with step diameter 4.744 inch x .372 inch wide & centered primer case hole .445 inch diameter with .63 inch counterbore special bar steel. Collar, 4.04 inch outside diameter x .35 inch thick, formed ring, 2.56 inch inside diameter, with V-notch at bottom and angled lip. Special bar steel. Components phosphate coated and varnished prior to assy. Manufacturers require staff of engineers, metallurgists & tool design engineers. Item extremely difficult to produce. No clearance required to obtain APPI. APSA-USAMUCOM.

APPI No. FA-15. Propellant for Cartridge Caliber 30. Spotter Tracer M38A1. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-16. Propellant for Cartridge Caliber 30 Ball M2. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-17. Propellant for Cartridge 7.62-MM. Ball, M80 and Tracer M62. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. 3. CANCELLATION OF APPI: Published previously as APPI No. 3 Radar Beacon, X-Band. This APPI is hereby cancelled in the 3 August 1965 issue of the Commerce Business Daily. The cancellation is requested on the basis of the quantities of X-Band Beacons on hand are sufficient to meet all anticipated requirements. USAMICOM.

APPI No. 6 CANCELLATION OF APPI: Previously published as APPI No. 6, covering Instrumentation for the F-4 Phantom II, 5543, synopsized in the 3 August 1965 issue of the Commerce Business Daily. This APPI is hereby cancelled on request of the F-4 Phantom II program and changes in

the balance of projected requirements which are now reflected in APPI No. MI-28 synopsized in the 3 August 1965 issue of the Commerce Business Daily.—USAMICOM

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Nov. 2, 1965 page 2 No. PSA 3925 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AV-29. Regulator, Oxygen, Automatic, Pressure-Breathing. In accordance with MIL-R-25916, FSN 1660-567-2921. This is a Qualified Products List Item. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-30. Link Assembly, Pitch Change Control, Main Rotor, (Helicopter). Steel. Iron corrosion preventive finish. FSN 1560-830-9731. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-31. Indicator, Vertical Speed, Rapid Response, Acceleration Sensitive. In accordance with MIL STD MS25454 Rev A, dtd 17 July '62 and MIL-I-58067 (MO dtd 8 May '63, with Amendment #1. FSN 6610-952-8832. This procurement will be a 100% small business set aside. No clearance required to obtain APPI. USAAVCOM.

APPI No. ME-42. Tank fabric collapsible; water, nylon, 100 gal. capacity, 11 ft. 3 in. high, 10 in. wide, w/stoves, gny ropes, covers, and 100 ft. of 1/2 inch rubber coated both sides and DI. 1320E9440, FSN 5430-355-4486. No clearance required to obtain APPI. USAMEC.

APPI No. ME-43. Air conditioner; floor mtg., air cooled; Dichlorodifluoromethane refrigerant; elec motor driven, 2 HP, AC, 208V, 3 phase, 60 cycle 18,000 BTU cooling per hr. MIL-A-001210D, dtd 16 Mar '65, class 1, and Dwgs D13164-1 thru 48, FSN 4120-266-9074. No clearance required to obtain APPI. USAMEC.

APPI No. ME-44. Air conditioner; floor mtg., air cooled, Monochlorodifluoromethane refrigerant; electric motor driven, 4 HP, AC, 208V, 3 phase, 400 cycles per hr. HPU cooling and 12,000 BTU heating per hr. MIL-A-001210D, class 2, & DI. 1321IE1E400, FSN 4120-266-9074. No clearance required to obtain APPI. USAMEC.

APPI No. ME-45. Air conditioner; floor mtg.; air cooled, monochlorodifluoromethane refrigerant, elec motor driven, 4 HP, AC, 208V, 3 phase 50/60 cycle; 8,000 BTU cooling and 12,000 BTU heating per hr. MIL-A-001210D, class 2, & DI. 1321IE1E400, FSN 4120-266-9074. No clearance required to obtain APPI. USAMEC.

APPI No. ME-46. Loader, scoop type, vertical lift front dump 8000 lb. rated capacity, bucket data, 2-1/2 cu yd. E range, non-heaped/cap. A/A in. max. lift. 1000 lbs. max. load. Diesel engine driven, equipped with 4000 lb. torque, inverted transmission, 4000 lb. torque, 2 steerable wheels. In accordance with MIL-L-52141A(MO), FSN 3805-752-9408. No clearance required to obtain APPI. USAMEC.

APPI No. AP-41. Ammunition Item—Grenade, hand, fragmentation, M26A2, metal parts, 3.33 inches high x 2.36 inch outside dia. Consists seven components; upper body, 1.62 inch high, 2.24 inch dia., .012 inch thick, well formed one end, .755 inch dia. x .135 inch deep, lock seam formed other end 360 degrees. Lower body, 1.44 inch high x 2.24 inch inside dia., .012 inch thick hole formed one end, .995 inch inside dia. for closing cap, lock seam end formed 360 degrees. Material; upper and lower body, cold-rolled strip steel. Spiral coil, 2.78 inch high x 2.22 inch outside dia. spiral wrapped, coil interior surface notched. Material, hard-drawn wire or cold-finished carbon steel. Well, 1.565 inch long x .565 inch outside dia., .007 inch thick, brass strip, alloy No. 1. Bushing, .76 inch high x .75 inch outside dia., flanged, internally threaded one end. Material, cold-finished bar steel or seamless steel type. Closing cap, .08 inch high x 1.145 inch dia. Base disc, .93 inch dia. x .0747 inch high, corrugated. Closing cap and base disc of cold-rolled strip steel are assembled by brazing or welding. Lower retaining ring, .32 inch high, .99 inch dia., of cold rolled strip steel. Manufacturer requires metallurgists, chemists and tool designers. Item not considered difficult to fabricate and assemble. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. ME-47. Tractor, fuel cracked, low speed, diesel engine driven A/A draw bar pull, 74 in min gage tract data, oscillating type, grouser type shoes, interal grouser, in. lg. on ground, w/power shift type transmission in combination with Torque Converter, in accordance with MIL-T-52270(MO), FSN 2410-965-5898. No clearance required to obtain APPI. USA MEC.

APPI No. AP-41. Ammunition Item - Fuze, BD, M578 MPTS with detonator, approx 4.802 inch long x 1.68 inch dia. Consists of 42 components. Major components include fuze body, approx 3.06 inch long x 1.68 inch dia. with outside thread. Three step counterbore to depth of 2.685 inch, inside dia. .875 inch, internal thread at open end. Material, special quality bar steel with protective finish. Locking segment and striker needle assembly, aluminum alloy components include segment holder approx .825 inch long x 1.356 inch dia., two counterbores stepping down to .260 inch dia. thru hole on longitudinal axis, two .2 inch dia. blind holes 180 degrees apart on opposite end. Striker body, cover, cup-shaped, two segments, each approx 1.0 inch long, .80 inch wide, .066 inch thick, kidney-shaped with various blending radii, of aluminum alloy. Segment holder plate, arming delay assembly, isolated, which includes the government-furnished XM61E2 detonator. Smaller components include escape wheel and pinion assembly, spring-loaded safety plunger and pins. Fuze assembly must withstand jolt, jumble and transportation tests. Locking segment and striker needle assembly and arming delay assembly subject to split tests. Manufacturer should have engineers, metallurgists and tool designers. Item considered very difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-43. Ammunition Item - Fuze, PI, BO, M530A1, primer and detonator loaded, 1.963 inch long x 1.350 inch dia. Consists of 44 components. Major components; housing rotor, 1.35 inch dia. x 1.44 inch long, machined with various grooves, slots, bores, counterbores and holes, aluminum alloy rod. Rotor, .745 inch dia. x .716 inch long, brass rod, various size holes, slots and counterbores. Shield (blank), aluminum alloy. Insulator, contact, thermoplastic. Plate, bearing (rear) brass strip, various slots, holes and formed tabs. Plate, bearing (front), brass strip, various radii. Leaf number 3, aluminum alloy, various radii. Lead setback, aluminum alloy, various holes and radii. Plunger graze, stainless steel. Small components include nuts, pins, springs, bushing, contacts, and bleeder resistor. Assembly subject to acceleration, and armor functioning, environmental conditioning and safety tests. Effective quality assurance system required. Item considered very difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-44. Ammunition Item - Projectile, 105mm, HEP-T, M393A2 metal parts, 15.84 inch long x 4.128 inch outside dia. Three components; body assembly, carbon steel, 15.34 inch long x 4.123 inch outside dia. varying wall thickness, parabola-shaped nose, two rotating band grooves, counterbore and threaded base end. Rotating band blank, gliding metal. Body and rotating band assembly must withstand internal air pressure test 100 PSI 15 second minimum. Plug, base, aluminum alloy, threaded cavity both ends. Manufacturer requires metallurgists, chemists and tool design engineers. Projectile considered very difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-45. Ammunition Item - Projectile, HEAT-FS, 90mm, M371E1, MPTS. Assy 14.47 inch long x 3.58 inch dia. 13 components. Major components; body, 6.46 inch long x 3.54 inch OD, tapered nose, 3.5 inch ID, tapered wall thickness, knurled rotating band seat, thread both ends, aluminum alloy. Rotating band, rigid polyvinyl. Adaptor, aluminum alloy, truncated cone shape, counter-bored and threaded top and bottom. Cone, sheet copper. Spike, steel, 6.7 inch long x 3.88 inch belmouth dia. Fin, aluminum alloy, 12.53 inch long x 3.5 inch dia., six webs with T-shaped lugs, internal thread in fin base and external thread opposite end. Other components include conduit, nose cap, insulator and wire lead. Manufacturer requires engineers, metallurgists. Item considered extremely difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. EL-39. Amplifier Power Supply Group OA-3633(/)GRC furnishes the regulated direct-current (DC) power required for vehicular operation of Receiver-Transmitter Radio Sets AN/VRC-53(/) and AN/GRC-125(/), also provides for mounting of Receiver-Transmitter RT-505(/)PRC-25. Operates from a 22.0 to 30.0 VDC vehicular battery source. Nominal input voltage 26.0 VDC; frequency range 30 to 76 mc/sec. The amplifier provides the amplification necessary to drive a self-contained panel-mounted loud-speaker. Confidential clearance required to obtain APPI. USAECOM.

APPI No. EL-40. Telephone Test Set TS-1323(/)PTM-7 a portable battery operated test set intended primarily to check performance of unattended, binary cable repeaters and to locate cable faults in one mile of unrepeaters cable span of Special Purpose

Cable Assembly CX-4245/G and to provide communications with attendant terminal points located up to a maximum distance of 40 miles. It is 14 inches long, 12 inches wide and 7 1/2 inches high. Confidential clearance required to obtain APPI. USAECOM.

APPI No. EL-41. Radar Set AN/PPS-5 is a ground surveillance radar set which includes Receiver-Transmitter RT-692, Tripod MT-2958, Antenna AS-1394, Battery Box CY-3871 and Handset H-226. RT-692 can be operated with or without a Remote Control Unit, battery operated, 6 or 24 D.C. volts. Maximum range 10,000 meters. A lightweight, miniaturized, combat surveillance radar utilizing a silent type power supply. This equipment is capable of detecting and locating, under conditions of poor visibility, moving targets such as personnel and vehicles. Also capable of detecting and locating large fixed targets under line of sight conditions. To be used in forward combat areas to provide intelligence of enemy movements. Confidential clearance required to obtain APPI. USAECOM.

APPI No. MI-38. SHILLELAGH Container Assembly, shipping and storage, guided missile are containers used in packing 152mm missiles and are designed to withstand all conditions encountered in handling, storing and transportation of missiles. No Federal Stock Number assigned. CONFIDENTIAL. Clearance required to obtain APPI. USAMICOM.

APPI No. WE-10. Milling, Grinding, Drilling and Slotting Attachment, Size 1, for lathes 9 to 13 in. swing, 115V, AC, sgl phase, 60 cye, 1/3 HP, 1725 RPM w/reversing switch and Standard Equipment, FSN 3460-840-1010. No Security Clearance Required. USAWECOM.

APPI No. WE-11. Table, Work, Automotive Maintenance; laminated hardwood working surface, 72 in. lg., 25 in. W, 35 1/2 in. h. FSN 4920-543-7771. No Security Clearance Required. USAWECOM.

APPI No. WE-12. Swap, Small Arms, Cleaning, Cotton. FSN 1005-228-3421. No Security Clearance Required. USAWECOM.

APPI No. WE-13. Cartridge, 20 cartridge case, 4.75 inch, 40 MM M14. FSN 1005-628-9048. No Security Clearance Required. USAWECOM.

APPI No. AT-25. Cover Assembly, Gunshield, Canvas, FSN 2540-692-9029. No clearance required to obtain APPI. USATAC.

APPI No. AT-26. Bushing Assembly, Torque Converter, Rectifier Plate, FSN 2520-092-8296. No clearance required to obtain APPI. USATAC.

APPI No. AT-27. Synchronizer, Transmission, Fourth & Fifth Speed, FSN 2520-752-1022. No clearance required to obtain APPI. USATAC.

APPI No. AT-28. Hose Assembly, Rubber, Aviation, Gas Segregation Kit, FSN 2540-884-4841. No clearance required to obtain APPI. USATAC.

APPI No. AT-29. Paultin, Truck, Cargo Body, FSN 2540-740-9679. No clearance required to obtain APPI. USATAC.

APPI No. AT-30. Kit, Repair, Universal Joint, FSN 2520-028-3434. No clearance required to obtain APPI. USATAC.

APPI No. WE-9. CANCELLATION OF APPI. Previously published as WE-9 in October 5, 1965 issue of the COMMERCE BUSINESS DAILY, this APPI is hereby cancelled on request of USAWECOM. USAWECOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Dec. 7, 1965 page 2 No. PSA 3948 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. EA-20. Carrier, field, protective mask, M15, FSN 4240-591-5151. The carrier is designed to contain the M17 field protective mask and accessories. It is fabricated from cotton duck incorporating several exterior pockets, flap at opening, snap fasteners, slides, snap hooks and several stiffeners held between carrier body and interior lining in accordance with applicable military specifications and drawings. No clearance required to obtain APPI. USAMUCOM-EA.

APPI No. EA-21. Harness, head, C8R1, FSN 4240-690-8765. The head harness is designed to hold the M17 field protective mask in place and consists of a center pad made with two pieces of 2" cotton webbing to which are sewn five pieces of

7/8" elastic webbing in accordance with applicable military specifications and drawings. No clearance required to obtain APPI. USAMUCOM-EA.

APPI No. FA-18. Metallic Belt Links, M13, M14A1 and M17A1 are used with caliber .30, 7.62mm and 20mm cartridges in machine guns. The links are made of steel, processed for rust prevention and are required to meet specific test requirements to assure satisfactory ammunition feed and functioning under all service conditions. No clearance required to obtain APPI. USAMUCOM-FA.

APPI No. FA-19. Bandoleers M2 and M4 are olive drab cotton cloth capstans used for holding either linked or clipped 7.62mm ammunition. No clearance required to obtain APPI. USAMUCOM-FA.

APPI No. FA-20. Cartridge Clip 7.62mm No. 5-round consists of a channel shaped body containing a spring and holds 5 cartridges. The purpose of this clip is to facilitate the loading of magazines for the 7.62mm rifle, M14. No clearance required to obtain APPI. USAMUCOM-FA.

APPI No. FA-21. Metal Boxes, M2A1, M19A1 and T 46 are reusable steel boxes having hinged covers sealed by means of a rubber gasket. These containers are used for packing small arms ammunition and are designed to withstand all conditions commonly encountered in handling, storing and transportation of ammunition. No clearance required to obtain APPI. USAMUCOM-FA.

APPI No. AP-46. Fuze, proximity, M532. The complete fuze weighs 1.3 pounds, is six inches long and the length of its intrusion is 2.21 inches. The M532 comprises a housing (body), an antenna, an oscillator, an amplifier, a battery, an arming mechanism, a booster, a PD trembler switch and a switch to deactivate the proximity device. The visible parts of the M532 are a plastic nose cap mounted in an aluminum ring, which is attached to the aluminum fuze base, and a steel cup (extending beyond the base) which contains the S&A device and booster. The base of the fuze screws into the nose of the projectile. The deactivating switch is manually operated by turning the nose cap of the fuze. The electronic head consists of the oscillator and amplifier. The trembler switch is in the subassembly with the amplifier. The battery plugs into the base of the electronic head. The power supply (PS 201A) is a 90 cell thermal battery with a potential of 150 volts. A stiffer setback spring is used. This item (M532) is considered very difficult to make. Manufacturing firms will require a highly competent technical staff, consisting of engineers, metallurgists, technicians and tool design engineers to fabricate and maintain precision tools for production of precision parts and assemblies. The supplier of the thermal battery should be one that has had considerable experience in the manufacture of a highly reliable product. SECRET clearance required to receive APPI. USAMUCOM-APSA.

APPI No. AP-47. Link, cartridge, metallic belt, 40 MM, M16, consists of two (2) pieces, loop, cartridge link and coupling, cartridge link, and are not assembled together for delivery. Coupling, cartridge link is manufactured from steel C1010 to C1020 Federal Specification QQ-S-633. Part is machined and is collar button shaped, .44 inches by .49 inches and has various grooves and .58 inches spherical radius on one end. Loop, cartridge link, is manufactured from steel 1050, 1050 MOO, Federal Specification QQ-S-777, cold rolled annealed. Material has slots and cut outs in material. .035 inches thick and loop is 1.990 inches by 1.970 inches. Loop is made from two pieces of material projected welded in two places. Optional method is to fabricate in one piece and weld in one place only. Link and coupling require heat treatment and final protective finish in accord with 5.3.1.2 of MIL-STD-171. Link and coupling are considered difficult to manufacture to the dimensional tolerances. Welding is considered difficult. No clearance required to receive APPI. USAMUCOM-APSA.

APPI No. AP-48. Case Cartridge, 40 MM, M169, 2.09 inches long x 1.624 inches to 1.714 inches diameter with varying wall thickness from .032 inch to .724 inch, with a web in approximate center of case which is cup shape, approximately .136 inch thick with 6 each .108 inch diameter tapered holes equally spaced around the web inside of case. This material is aluminum alloy 6066 chemical comp., par. 3.1, Spec. MIL-A-25493. This item has metal stamping in base, uses gothic capital letters to a minimum depth of .010 inch raised material which shall not exceed .002. The letter to identify item by nomenclature, manufacturer's code letter, lot number and year of manufacture. Protective Finish No. 4.3 followed by Finish No. 7.2.2 of MIL-STD-171 dechromate seal, minimum 5 percent solution. Color must not be lighter than Green No. 34151 or darker than Green No. 34079 of Federal STD No. 595. Plug Base, .473 inch thick x 1.053 inches diameter with a primer pocket .127 inch deep x .209 inch with flash hole .108 inch through plug. Material, aluminum alloy, 7075-T6, Spec QQ-A-277, protective finish same as case car-

APPI No. ME-48. Drill, pneumatic, type, crawler, etc. Drilled 6" to 220' in excess of 1000 ft. in hard cross section. Capable of 1/2 hp. power. Drilled 6" to 220' in hard section. Driver accommodates drill shaft.

face treatment. Competent technical staff required. Item is difficult to produce to government specifications. No clearance required to receive APPI. AP. USAMUCOM.

APPI No. AP-52. Ammunition Item—fuze, rocket, M412, procured with loaded detonator, electric M48, and primer. STAB T-96, 1.86" long x 1.245" dia. x. Consists of 69 components. Five major components are base, mounting, approximately 1.245" dia. .636" long requires drilling, milling, tapping, forming of slots, and deburring per MIL-F-60003; material aluminum alloy, Spec QQ-A-591, class 10; alternate material aluminum alloy rod, temper 3, Spec QQ-A-365; support rear is 1.058" long x .666" W by approximately .032" thick holes and slots formed by pressing; material cold-rolled carbon steel strip No. 2 finish, 4 or 5 temper, ASTM A109; Rotor is approximately 1" long by .625" diameter, requires drilling, milling, tapping, slotting and deburring; material aluminum alloy, rod, temper T3, composition A, Spec QQ-A-365; support setback, 1.444" x .893" x .032" thick, requires angles, slots and holes; material cold rolled carbon steel strip, No. 2 finish, 4 or 5 temper, ASTM A109; cover is 1.245" x 1.233" long, cold-rolled carbon steel strip No. 2 finish, 4 or 5 temper minor components assemblies to cover consist of plate cover by silver brazing visible 360 degrees on this joint. Requires competent technical staff and is very difficult to manufacture per applicable drawings and specifications. No clearance required to receive APPI, AF-USAMUCOM.

APPI No. AP-53. Ammunition Item—warhead, 66mm, rocket, HE, M18, approx 2-5/8" dia x 9" long. Body head approx 5.10" long x 2.568" dia at large end x 1.129" dia. at small end; material, steel strip FC10009, FS1015 to FS1020, cold rolled and annealed, temper No. 5, finish No. 1 or No. 2, Spec QQ-S-640. Ogive approx 3.79" long x 2.598" dia large end x 1.262" small end; material aluminum alloy sheet, 3003-0, ASTM B209, .070" to .027" thick. Liner approx 3.129" L x 2.604" D, conical shaped, .039" wall thickness; material, copper strip, cold rolled, soft annealed, ASTM B152. Body head and ogive shrunk fit and crmped, insulator approx .33" x .986"; material, molding plastic and molded plastic parts, thermo-setting, type CFG, Spec MIL-M-14. Conduit approx 9.43" L x .098" O.D. and .065" I.D.; material, tubing, brass, No. 3 alloy, ASTM B135. Connector insulator, approx .135" D at large end x .085" I.D. at small end; material, brass strip, composition I, spring temper, Spec QQ-B-613. Gasket nose, approx .860" I.D. x .125" O.D. x .003" thick; material, gasket, class B, Spec MIL-P-5516, screw insulator No 2 x 1/4" long, type B, style, Spec FF-S-107, conduit soldered to link, shrink fit head body to liner. Requires competent technical staff and is difficult to manufacture to applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-54. Ammunition Item—closure for rocket, 66mm, AT, M72, MFD per Specs MIL-A-2550, MIL-STD-8, MIL-STD-9, MIL-STD-10. Material high strength extruded aluminum alloy, 2.94" overall length x 1.84" D at mouth extending .65", receding 60 degrees basic to 1.47" D cylinder, extending 2.29" mouth beveled, modified buttress thread, 1.54" pitch diameter. Inside of cylinder has opening recessed diameter of 1.28" extending .76" with two .065" wide grooves of diameter 1.33". Recessed section also has two holes .10 inch diameter, countersink diametrically opposed to each other. Item is hydrotreated. Competent technical staff is required and is difficult to manufacture to applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-55, Ammunition Item—launcher, rocket, 66mm, M72, 34-1/4" long x approx 4"D consisting of approx 170 components. Inner tube 14" x 2.645" to 2.784" O.D., approx .050" wall; material aluminum alloy extruded, 6061-T6 Spec ASTM B 221. Firing pin housing assembly approx 4" L x .76" D at forward end and 1.14" D at rear end; material aluminum die cast, composition 11, Spec QQ-A-591; outer tube approx 24" L x 2.677" D x .052" wall thickness; material, filament wound epoxy tubing. Requires highly competent technical staff and is extremely difficult to manufacture per applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-56. Ammunition Item—Mine. AT XM24E1, consists of firing device, DEMO, XM61, rocket launcher assy, XM143 & cable assy, vehicle detector; fundamentally it is a complex electro-mechanical device. Requires highly competent technical staff and is extremely difficult to manufacture to applicable specifications. Confidential clearance is required to receive APPI. AP-USAMUCOM.

APPI No. AV-37, Generator, Direct Current, Type GEU-5A in accordance with Mil Spec MIL-G-6162 dtd 23 June 1950 with Amendment 2 dtd 7 Jan 1960, FSN 6115-725-1790. This item is on QPL No. 6162, Suppliers contact Wright Air Development Division, Wright-Patterson Air Force Base, Ohio to have their product tested and qual-

filed prior to solicitation of future requirements by this command. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-38. Indicator, Pressure. Type MO-3 in accordance with MIL-I-25578. Appl. Engine In-gine Instrument, Aircraft. FSN 6620-581-2268] This item is on QPL No. 25578. Suppliers contact Wright Air Development Division, Wright-Patterson Air Force Base, Ohio to have their product tested and qualified prior to solicitation of future requirements by this command. No clearance required to obtain the APPI. USAAYCOM.

APPI No. AV-39. Transmitter, Pressure. Electrical Data, 26V AC, 400 Cps; Connection Data, electrical connections 1/4 pin contacts, AN 3102-14S-2P, other than electrical connections 2 7/16-20 NF, internal tube connections, actuated by diaphragm, 0 lbs to 50 lbs psi measurement range, o/a dim mtg data as per MIL-T-5882A, Spec Oata, MIL-T, 5882A, Amend 2, Standard Data, MS 28005-1; FSN 6620-553-8988. Appl., Pressure, Fuel, Water, Oil. Engine. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-40. Axle, Skid Landing Gear Wheel, Appl: OH-23 Rotary Wing Aircraft, Dwg 1560-CH23-007D 15070-23 Code 81996, FSN 1560-609-7969. This procurement will be a 100% small business set aside. No clearance required to obtain the APPI. USAAYCOM.

APPI No. AV-41. Leg Assembly, Skid Landing Gear, Appl: OH-23 Rotary Wing Aircraft. Dwgs 1560-OH23-387A5203-1; 1560-OH23-3875070-1. Code 81996. FSN 1560-320-5064. No clearance required to obtain the APPI. USAAVCOM.

APPI No. EL-45. Charger, Battery PP-1659/G is a general purpose charger for lead-acid storage batteries. Contained in a perforated metal case, approximate dimensions 11.75x11x12 inches. Silicon type rectifiers; 105 v charging; 12 amp continuous charging; alternate operating requirement: 115 vac. 60 cps, 1 ph; 230 vac, 50 cps; 1 phase. MIL Spec. Confidential clearance required to obtain APPI. USAECOM.

APPI No. EL-45, Test Set, Battery N/PSM-13(I) is used in testing Battery, OR BA-270(X)/U and Battery Dry BA-279(X)/U. Hand held, single meter, marked good/bad, approximate dimensions 7.2x7.5x4 inches. Consists of Test Set, Battery TS-1301(X)/PSM; Bag, Cotton Duck CW-842(X)/PSM-13; Adapter, Connector U-240(X)/PSM-13; Adapter, Connector U-241(X)/PSM-13; Adapter, Connector U-242(X)/PSM-13. Weight approx 1 pound. Confidential clearance, required to obtain APPI. USAECOM.

APPI No. EL-47. Multimeter AN/USM-223() is a lightweight, portable battery-powered multimeter. Utilizes internal battery source consisting of 6 each BA-1312 and 1 each BA-42. Approximate dimensions 5.375x6.25x8.25 inches; plastic case. Has special features to permit safe testing of transistorized circuits. Consists of Cover, Multimeter CW-855/USM223 and Test Lead Set CX-1331()U. Confidential clearance required to obtain APPI. USEACOM.

APPI No. EL-48. Cable Assembly, Special Purpose, Electrical CX-1574/U is part of Handset H-33))PT and is approximately 5 feet 10 inches long o/a. Has 7-stranded conductors, 2 are 18 AWG and 5 are 24 AWG. Connector, Plug U-11/G on one end; the other has four inches of exposed tinned wire beyond the jacket, MIL Spec Item. Confidential clearance is required to obtain APPI. USAECOM.

APPI No. EL-49. Amplifier, RF is a component of Radio Transmitter Type T-195/GRC-19. Approximate dimensions: 8-5/16x5-11/16x9-1/2 inches. 1.5 to 20 mc range; 80 to 125 w power output. Sig C Drawing. Confidential clearance is required to obtain APPI. USAFECOM.

APPI No. MI-41, Cable Set for Interlagan Missile System—Cable sets will be used for interconnecting guidance and control components of the M-60 vehicle. These sets consist of six shielded electrical cables for a range of different lengths shielded with neoprene. Federal Stock Number assigned. Offered to afford sub-contracting opportunities. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. MI-42. Launcher, Rocket Aircraft, XM-158. Consist of seven 2.75" diameter, 54" long, extruded aluminum tubes. The tubes are secured in a cylindrical configuration by means of 2 sets of cast aluminum segments. Each set of segments being held together by 2 steel straps. The electrical system consists of a 26 pin connector with a separate circuit connected to a firing arm on each tube. The weight of the launcher is approximately 45 lbs and is designed to be suspended from a standard 14 inch bomb rack. Federal stock number 1035-912-3039. Actual Procurement may be small business set-aside. No clearance required to obtain APPI. USAMICOM.

APPI No. AT-36, Carrier, Differential Assembly, Steering, W/Pinions and Spindles Assembly, FSN 2520-753-9886. No clearance required to obtain APPI. USATAC.

APPI No. AT-37. Wheel, Steel, Track Idler, FSN 2530-856-2299. No clearance required to obtain APPI. USATAC.

APPI No. AT-38. Engine W/Container for 10 Ton Truck, FSN 2805-066-4464. No clearance required to obtain APPI. USATAC.

**APPI No. AT-39. Coil Booster, (Engine Starter)
Filter Engine Assembly, FSN 2920-565-0785. No
clearance required to obtain APPI, USATAC.**

APPI No. WE-19. Test Stand (Automotive) Generator and Starter; floor md. 6 to 24 volt range, 500 ahp, 100 to 9000 rmp, ac, dc, 22-1/2 hp 330/440 volt, 60 cy, 3 ph.—**USAWECOM.**

APPI No. WE-20, Test Set, Tachometer—Dwell:
0 to 1000 rpm tachometer scale range, 20 to 50
deg dwell meter scale range, 9 dia W, 12 o/a H,
15 o/a Lg.—USAWECOM.

APPI No. WE-21. Extractor, Ruptured Cartridge
Case used for 30 cal, 7.62, 40mm, 76mm, 90mm.
USAWECOM.

APPI No. WE-22. Borescope M2, A8413849 used in field maintenance inspections of weapons 57mm through 280mm.—USAWECOM.

No security clearances required on the above
APPLs.

APPI No. ME-57, Outboard Motor, gasoline, manual rope starting, retracting; 15' handles, horizontally opposed, 18" shaft; 15 hp at 4200 rpm; 3 and 4 pulleys; 1 1/2" aluminum or bronze; electric fuel and auto lubricance; propeller attached to shaft pin and nut; one reverse speed; 100 degree steering; 12 to 21 gear ratio; w/carrying chest; FSN 2803-132-9079, USA-MRC.

CANCELLED

APPI No. ME-59. Heater Bitumen: diesel engine driven: semitrailer mtd. 2 wheel, pneumatic tires; pressure atomizing burner: steam: 3 car heating: FSN 3895-221-1760, USAMEC.

APPI No. FE-60. Compressor, Reciprocating,
Power Driven; designed for air storage; 4 cylinder;
single acting; can receive air directly deliv-
ered, 3000 psi; pressure at coded w/auto-
matic unloader; 1 bearing; waterline engine,
rigid coupling; cooling tank; wheel mtd,
2 wheels, pneumatic tires; FSN 4310-764-2316.
USAMEC.

APPI No. ME.61. Compressor, Reciprocating, Power Driven; designed for air: 2 stage; 2 cylinders, angle or vertical design, single acting; 3 cfm free air actually delivered; 175 psi at 2 stage pressure; air cooled; w/water; 2 w/o; 100 cfm capacity; w/gasoline; 2 w/o; 100 cfm capacity; air receiver tank; 2 w/o; 100 cfm capacity; pneumatic tire; 2 w/o; 100 cfm capacity; wheel, pneumatic tire; 2 w/o; 100 cfm capacity; for std and large bore; 2 w/o; 100 cfm capacity; and rubber air hose assy, 3/16 in; ID, 50 ft long; lightweight, max total operating wt not to exceed 1351 lb; intercooler between stages; MLI Std Gasoline Engine Model 1A08, FSN 4210-752-9633, USAMEC.

APPI No. ME-62. Compressor, Rotary, Power Driven; two impeller type, 21 stage; 60 cfm may rate of free air delivery 6.5 psi discharge pressure above atmospheric; air-cooled; w/gasoline engine, 3 hp, flexible couple drive; wheelbarrow frame mtd 2 wheel, pneumatic tires WV Mil Std Engine Model 2A-016; FSN 4310-342-3329. USAMEC.

APPI No. ME-63, Tank, Fabric Collapsible: Water, 1,500 Gal; 7 ft 9 in. dia, 54 in. deep; w/staves, guy ropes, cover and ground cloth; synthetic rubber coated, both sides; FSN 5430-171-4401. USAMEC. No security clearance needed on the above listed items.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Feb. 1, 1966 page 2 No. PSA 3986 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. EA-23. Cap, Inlet valve, C20, Type II, FSN 4240-893.3697. The cap, Inlet valve C20, assembly is designed for use with a molded rubber facepiece (M17 mask) that has a collar with a bead on the outer surface. The Inlet valve assembly fits over the connector of the filter element assembly.

drawn, approximately 23.975 inches long by 5.3302 inch outside diameter at base to 4.121 inch inside diameter at mouth, wall thickness varies from approximately .085 inches to .059 inches, body tapered and necked down, completely heat treated varying from Rockwell C34 at base section to RB85 maximum at mouth, material, steel, specification MIL-W-1689, machined primer hole and base, zinc plating with supplementary chromate treatment, application of film of wax emulsion to exterior surface, specification MIL-W-1688, ballistic testing required for each lot. Manufacturing firms producing this item will require a highly competent technical staff of engineers, metallurgists, chemists, and tool design engineers to design, fabricate and maintain precision tools for mass production of this item. This cartridge case is considered very difficult to produce in applicable specification. No clearance required to obtain APPI. AP-USAUCOM.

APPI No. AP-2R1. Revision: Ammunition Item—case, cartridge, 106 mm, M96B1, assembly, 24.0 inches long by 5.148 inches outside diameter at base. 3 major components, consisting of tube, approximately 23.65 inches long by 4.693 inches outside diameter tapering to 4.32 inches at the mouth, wall thickness varies from .120 inches at base end to .078 inches at the mouth, steel strip is perforated with 1160 holes .312 inches in diameter at base to 4.121 inch inside diameter mouth, wall thickness diameter and are welded (submerged or inert gas shielded) to form tube, Rockwell hardness requirement of C32 minimum at base to B90 minimum at mouth, material, steel, strip, 1030 specification QQ-S-360, tube is copper brazed to head, 5.148 inches diameter by .93 inches long, .8074 inch diameter primer hole and 1-3/8 threaded filler plug hole, annular groove permitted on small outside diameter for brazing ring, material, steel, non-resulphurized, special bar quality, specification ASTM-A107, plug, 1.375 inch diameter by 40 inches long, 1-3/8 external thread, two .25 inch blind holes at one end, material, steel, special bar quality specification ASTM-A107. Heat treatment and stress relief must be performed on the cartridge case body to obtain the required mechanical properties. The head and tube assembly receives a baked varnish finish after phosphatizing. The plug is zinc or cadmium plated. This case is considered very difficult to manufacture in accordance with applicable specifications. No clearance required to obtain AAP. AP-USAUCOM.

APPI No. AP-4R1. Revision: Ammunition Item—metal fabrication and explosive loaded. Booster M125A1 mpts w/loaded M17 detonator. Approximately 2" diameter by 2" long. Nine components and 6 subassemblies, contains timing components, gear and pinion assembly, escape wheel, pins, rotors, springs, etc. Firm will require competent staff of engineers and tool engineers and ability to produce precision parts and precision assemblies by mass production techniques. Also requires final approval score, handle, load, explosive detonators. Considered extremely difficult item to produce. No clearance required to obtain APP. AP-USAUCOM.

APPI No. FA-2. Projectile M56E2 for 20mm electric HEI cartridge. It consists of body, rotation band and base cover. The body which is made of steel is hollow. The base cover is also fabricated from steel and is welded to the body. Secret clearance required to obtain APPI. FA-USAUCOM.

APPI No. FA-23. Fuze M505E3 is used with the 20mm HEI ammunition. It consists of a body assembly, a rotor assembly and a booster holder assembly. The body assembly consists of an aluminum alloy firing pin and a rotor safety spring of corrosion-resisting steel wire contained in a steel body and covered by a steel steel cover. The rotor assembly consists of a brass rotor containing the detonator. The booster holder assembly consists of a steel holder housing the booster. Secret clearance required to obtain APPI. FA-USAUCOM.

APPI No. FA-24. Metallic belt links M12 and M14A1 are used with 20mm and 7.62mm cartridge in machine guns. The links are made of steel, meet specific test requirements and are required to ammunition feed and functioning under all service conditions. No clearance required to obtain APPI. FA-USAUCOM.

APPI No. FA-25. Bandoleers M1, M2, XM3 and M4 are olive drab cotton cloth coilnaps used for holding either linked or clipped 30 cal. 7.62mm or 5.56mm ammunition. No clearance required to obtain APPI. FA-USAUCOM.

APPI No. AV-42. Spark plug. Electrically shielded resistor type, platinum. In accordance with MIL-S-7886B did 13 Mar 62 and MIL-S-7886/1001-2 did 24 May 65. FSN 2925 056-7053. Appl. OH-13 and OH-23 concerns contact USAAVCOM. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-43. Computer Air navigation, P/N CPU-26A/P. In accordance with MIL-C-3414D did 20 Dec 63 and QPL 3414 Latest revision, FSN 6605-064-6911. Interested suppliers contact Middle-town Air Materiel Area, Oxnard Air Force Base, Pa., to have their product tested and qualified prior

to solicitation of future requirements by this Command. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-44. Generator, direct current, self-excited, P/N AN3631. In accordance with MIL-G-6162 did 23 June 50 with amendment No. 2 did 7 Jan., 60. FSN 6115-908-4842. This item is an QPL. No. 6162. Suppliers contact Bureau of Naval Weapons, Wash., D. C. to have their product tested and qualified prior to solicitation of future requirements by this Command. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-45. Tank subassembly, for fluid tank, main rotor damper, CH-34 rotary wing aircraft, Dwg 1560 C1134-378 5183-3 Code 81996. FSN 1560-574-6394. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-46. Canopy Ass'y, skid gear litter, for OH-23 Rotary wing aircraft. Dwg 1680-01123-033 5133-1; 1680-01123-033 5155-1 Code 81996. FSN 1680-317-0598. This is first time breakout from prime manufacturer. Additional sources needed for future solicitation. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-47. Manifold Ass'y, exhaust system, for OH-23 Rotary wing aircraft. Dwg 1560-01123-39013 5091-2; 1560-01123-3908 5155-211. Code 81996. FSN 2945-055-1617. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-48. Indicator, turn and slip. Integral stabilization, polymer, I, used to show pitch of Aft, Fluorescent finish, W/O instrument lamp, 28V DC, electrical connection, 1, 3-PIN connect, AN 3102C-1051-3P, O/A Dim., 5.5 in. deep, 3.5 in. H, Panel Mtd., MIL-1-7805, Type M13-H, FSN 6610-580-7922. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-49. Regulator, Oxygen, diver demand, for fixed position. Appl., oxygen breathing item act. FSN 1660-567-2021. In accordance with MS22062. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-50. Starter, engine, hydraulic, Sperry Rand Corp, Vickers Div., P/N HA 1030-070-3A or equal. Appl., CH-47 rotary wing aircraft. Interested firms submit data sufficient for determination of equality to USAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 2993-072-5652. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-51. Wheel, landing gear, Appl., CH-47 rotary wing act. Goodyear part number 954 2521 or equal. Interested firms submit data sufficient for determination of equality to USAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 1630-226-6131. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-52. Brake, single disc, hydraulic, 10.5 in. max lining contact path, 184 in. disc thickness, left and right hand, for 5.5 in. wheel Appl., CH-47 rotary wing act. Goodyear P/N 954 1635 or equal. Interested firms submit data sufficient for determination of equality to USAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 1630-752-9798. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-53. Panel, protection, electrical system. Non-enclosed, Appl., CH-47 Rotary wing aircraft. Lear Siegler P/N 50185-010 or equal. Interested firms submit data sufficient for determination of equality to USAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 6110-890-6020. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-54. Tank, hydraulic fluid, Appl., CH-47 Rotary Wing Act. Boeing Corp. Veritol Div. P/N 114HS104-2 and Gen. Metal Corp. Aisl Div. P/N 416220 or equal. Interested firms submit data sufficient for determination of equality to USAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 1650-030-8349. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-55. Valve assembly, w/inch. Appl., CH-47 Rotary wing act. Boeing Corp. Veritol Div. P/N 114HS113-1 and Garrett Corp. Aircsearch Div. P/N 124648-1 or equal. Interested firms submit data sufficient for determination of equality to USAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 1650-716-8614. No clearance required to obtain the APPI. USAVCOM.

APPI No. AV-56. Pump, axial, piston, hydraulic, AFT-TRANS. Ass'y. Appl., CH-47 R. W. Act, Sperry Rand Vickers Div., P/N PV62L0091 and Boeing Corp. Veritol Div. P/N 114HS130-9 or equal. Interested firms submit data sufficient for determination of equality to USAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 1650-016-2886. No clearance required to obtain the APPI. USAVCOM.

APPI No. 28. CANCELLATION OF APPI: published previously as APPI No. 28. EFT Monitor, 16 Channel, and Instrumentation Assembly less DOVAP synopsized in EFT Monitor, 16 Channel of Commerce Bush. This APPI is being cancelled on request of the Department of Defense, Command Flight Monitor, and related equipment will be converted to 16 channel, thus eliminating the requirement as indicated in APPI MI-28, USAMICOM.

APPI No. AP-2R1. Revision: Ammunition Item—case, cartridge, 106 mm, M96B1, assembly, 24.0 inches long by 5.148 inches outside diameter at base. 3 major components, consisting of tube, approximately 23.65 inches long by 4.693 inches outside diameter tapering to 4.32 inches at the mouth, wall thickness varies from .120 inches at base end to .078 inches at the mouth, steel strip is perforated with 1160 holes .312 inches in diameter at base to 4.121 inch inside diameter mouth, wall thickness diameter and are welded (submerged or inert gas shielded) to form tube, Rockwell hardness requirement of C32 minimum at base to B90 minimum at mouth, material, steel, strip, 1030 specification QQ-S-360, tube is copper brazed to head, 5.148 inches diameter by .93 inches long, .8074 inch diameter primer hole and 1-3/8 threaded filler plug hole, annular groove permitted on small outside diameter for brazing ring, material, steel, non-resulphurized, special bar quality, specification ASTM-A107, plug, 1.375 inch diameter by 40 inches long, 1-3/8 external thread, two .25 inch blind holes at one end, material, steel, special bar quality specification ASTM-A107. Heat treatment and stress relief must be performed on the cartridge case body to obtain the required mechanical properties. The head and tube assembly receives a baked varnish finish after phosphatizing. The plug is zinc or cadmium plated. This case is considered very difficult to manufacture in accordance with applicable specifications. No clearance required to obtain AAP. AP-USAUCOM.

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APPI No. ME-83. Generator Set, diesel engine, 150 KW, AC, 0.8 power factor, 120/128 v, 3 phase, 4 wire service, 60 cycle; liquid cooled, skid mtg; open; 1200 RPM; w/remote control panel; radiator separately located; 15% overload capability; precise power, in accordance with specification MIL-G-52422(MO); FSN 6115-752-2089. No clearance required to receive APPI. USAMEC.

APPI No. ME-IRI REVISID laundry Unit
trailer mounted in a trailer type 332 w/canvas
cover, capacity 200 lbs. (dry weight) of laundry
per hour in the laundry with 100 lbs. of laundry
0404635A (date) 7-1-2895. No security
clearance required to receive APPI. USAMEC.

APPI No. EA-25. Decontaminating and Relm
pregnation Kit, individual, M13, FSN 4240-907-4828
The kit, individual, M13, is designed to contain the
following: A small, sealed nylon plastic coated bag
with fuller's earth in a pad or sachet made of
polyethylene on the inner side and a woven dacron
orlon cloth on the outer side; a large, heat-sealed
plastic bag containing two knitted orlon sacks with
imprenite and plastic sealed capsule of dye, also
a cutting blade molded in a plastic sheath. All com
ponents will be inserted in plastic container 1-3/4
x 2-3/4" x 4" high. No security clearance required
to obtain APPI. EA-USOMUCOM.

APPI No. AP-67. Ammunition Item—Cartridge
HE M374, Mpts for 81MM Mortar Body Assembly
 10,403 inches maximum length by 3.184 inches outside diameter consists of 1/4 components parts, body 9.50 inches long by 3.182 inches diameter near center tapered to 2.38 inches diameter at front end and 1.835 inches at rear end with varying thickness from .185 inches to .25 inches, nose thread 2.00-12NS-11 end bore to 1.62 inches for brazed in adapter, material pearlitic malleable iron grade 50007, Specific MIL-C-46971 physical properties yield strength 50,000 PSI minimum, .1 percent off-set elongation-7 percent

minimum adapter, base, 1.26 inches long by 1.80 inches maximum diameter, one end threaded 1-1/2 NFE-2A, material, carbon steel, special bar quality, ASTM Specification A107, or A108 applicable alternate material, pearlitic malleable iron, Grade 50007, Specification MIL-C-46971, physical properties, yield strength 40,000 PSI minimum, .1 percent offset, 10 percent minimum elongation, mechanical property requirements of MIL-C-46971 apply to alternate material, cover, base, 1.02 inch diameter by .0209 inch thick, material, cold rolled carbon steel strip, temper number 4, ASTM Specification A107 applies. Adapter, base is brazed 360 degrees to withstand 5000 PSI hydrostatic test and 150 pound force air test. BOD requires 100 percent ultrasonic inspection and magnago. Band obturating, 3,500 inch diameter by .187 inches thick, material, pipe, plastic Specification PA-PD-2521, body assembly prior to assembly of band, obturating requires phosphor coating and paint. Manufacturing firms bidding this item will require a highly competent staff of Engineers, Metallurgists, Chemists and Tool Design Engineers to design, fabricate and maintain precision tools required for mass production of this item. This item is considered very difficult to produce to applicable specifications. No clearance required. APBI AP-USAMUCOM.

APPI No. AP-68. Ammunition Item—Project
body and ban assembly, WP, M375, 81MM con-
ing of two components. Body, 10 inches long, v-
ling in outside diamets from 2.595 inches at
to 3.115 inches on bourrelet to 1.705 inches at
base, varying wall thickness .235 inches on b-
ralet, .20 inches at mid-section, .185 inches at
section, machined internally in nose section
accept press, fit burster casing, threaded external
at base to accept fin assembly, outside diameter
body grooved 360 degrees to accept obturating
material, steel, non-resulphurized, carbon bar,
rolled, special quality, ASTM Specification A
alternate material, steel, non-resulphurized, A
fication MIL-S-11310, yield strength 60000 PSI
percent offset, 12 percent elongation. An obtur-
band 3.500 inch outside diameter by .187 in-
thick, inside diameter 2.895 inches, six 60 de-
by .037 inches deep grooves equally spaced in
of band, material, pipe, plastic, Specification
PD-2521. Firms bidding this item must have
fied Metallurgists, Chemists and Tool Designers
fabricate this item in accordance with applica-
fications. No clearance required to o
APPI, AUSA MICOM

APPI No. AP-69. Ammunition Item - Projectiles, TP-T, M489, 105MM Assembly, 25.88 inches long by 4.13 inch diameter and consists of 8/16 inch diameter body, 8.09 inches long by 4.128 inch diameter by 3.052 inch inside diameter with 12 threads both ends, material, steel carbon, finished, ASTM-A273-58T or special bar 9

ASTM-A107 or steel tubing, seamless, Specification QQ-T-830. Base, 9.33 inches long by 4.111 inch diameter tapered to 1.44 inch thread both ends on outside diameter, material, aluminum alloy, forging ASTM-B247 or ASTM-B211 or B221. Spike, 7.610 inches long by 4.111 inch diameter head section, stem section, 1.322 inch diameter tapered to 1.2 inch diameter 6 inches long, thread on both ends of diameter, material, aluminum alloy forging ASTM-B 247 or B211 or B221. Fin, 3.69 inches long by 4.083 inch diameter 167 webs with "T" shape lugs, inside threads both ends, center section .96 inches diameter, material, aluminum alloy extrusion ASTM-B221. Obturator, .29 inch diameter by 3.591 inch inside diameter by .706 inches long, material centrifugally cast clear tubing, product of Polymer Corporation, Reading, Pa. or product of National Vulcanized Fiber Company, Wilmington, Delaware. Tubing to be made from Zytel 101 or 42, product of E. I. du Pont de Nemours Co., Wilmington, Delaware. Cup nose flanges, 1.57 inch diameter by .125 inches thick, body diameter, 1.17 inch by .67 inches long 3/4 inch 16 thread by 5/8 inches deep, material, aluminum ASTM-B211 or B221. Plug, 7/8 inch diameter by .34 inches long by 5/16 inch bore, material, aluminum alloy, ASTM-B211 or B221. Disc, .435 inch diameter by .004 inches thick, material, brass strip alloy NBR 6, ASTM-B36. Assembled projectiles palletized for shipment. Manufacturing firms bidding this item will require a highly competent technical staff of Engineers, Metallurgists, Chemists, Tool Engineers for mass production of this item. This item is considered difficult to produce. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-70. Ammunition Item—Projectile Assembly for Cartridge, 40MM, practice, M385. Consists of body and blank band. Body is approximately 3.164 inches long X 1.602 inches in diameter with boat tail shape base and rounded OSE with band seating groove approximately .364 inches wide. Material, aluminum alloy bar 2024, T351 ASTM B211-63, protective finish No. 722 of MIL-STD-171 Blue No. 35109 approximately of Fed Std 595. Blank band is tubing, copper, seamless, specification WW-T-797. Band is approximately 3.65 inches long X ID 1.56 inches .072 inches wall thickness. Blank band is to be swaged to body and two grooves machined around the band. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-71. Ammunition Item—Projectile
40MM, M38A. MPTS. body assembly, 40MM, M38A
MPTS, consists of body and blank band. Body
approximately 1.855 inches long X 1.558 inches
maximum diameter. Body is boat tail with knurled
groove, .366 inches wide around body approximate
.674 inches from mouth of body. Boat tail base air
slide walls are approximately .107 inches thick. Top
has inside threads 1-15/32 - 24NS - 2B at top. In
terminal base surface deeply embossed with a radi-
cart wheel configuration. Body is to be impact re-
struction material 1030 steel ASTM 107-61T spec-
drawn from plate material, 1030 steel plate, spec-
tification QQ-S-700B. Blank band is tubing copper
specification QQ-S-700B. Band is tubing copper
X IO 1.56 inches and .072 inches wall thickness
band blank is to be swaged to band seat of body
and two grooves machines in band and one groove
machined in body rearward of the band. Body is
seminally to be phosphate coated and painted olive
drab. The item is considered difficult to manufacture
to drawing and specification requirements. CO
FIDENCIAL clearance is required to receive t
APP. AF-11SAMUCOM.

APPI No. EA-26. Hood, Field, Projective M
M6A2 FSN 4240-999-0420. The projective m
hood M6A2 is made of Butyl-Rubber Coated Nylon
Cloth with a Frontal Zipper Closure and 4 op
ings in the front of the hood which fit around
elecons frame, the inlet valve assemblies and vor
mutter-outlet valve assembly of a protective m
The manufacturing of the hood requires considerable
technical and quality workmanship especially in
area of the Butyl-Rubber Coated Nylon Mater
and the sewing and stitching of this material i
a hood. Proposed procurement will be under a
percent small business set-aside. No Security Cl
ance required to obtain APPI. EA-USAMUCOM
quality. Alternate method of manufacture to

APPI No. AV-71, Altimeter and case assembly, portable. In accordance with TMC drawing 66-0000. REVISION B. This item is on QPL No. 64. FSN 6610-772-0507. No clearance required to use. APPI, USA AVCOM

APPI No. A-V-72, Tire, pneumatic. Aircraft Equipment, Main wheel application, low pressure 11.00 x 12 size designation, 8 ply rating, nylon cord, ribbed tread pattern, quantity of ribs not required. No clearance required to obtain APPI. USAF T-5041, Type 3. QPL No. 5041. FSN 2620-752-4004. No clearance required to obtain APPI. USAF T-5041, Type 3. QPL No. 5041. FSN 2620-752-4004.

APPI No. AV-73. Preoller, plekler. Multi-pu
28V DC, complete W/gum assembly and access
In accordance with MIL-P-58050, Type 1. Pr
ment will be 100% small business set aside.
4920-769-3376. No clearance required to
PUSA/COM

APPI No. AV-74. Tire, pneumatic. Aircraft Equipment, nose wheel application, low pressure type, 7.50 x 10 size designation, 6 ply rating, nylon cord, ribbed tread, 7 ribs, designed for use W/O inner tube, open base, MIL-C-5041B, type 3. QPL No. 5041. PSN 2620-752-8650. No clearance required to export. JISAAYCOM.

APPI No. AV-75. Maintenance platform, adjustable, manual, 2 ft. 3 in. to 4 ft. working level H range, platform floor, 2 working platforms, magnesium plated, 2 wheels, W/O locks, Max O/A dim. 105 in. LG, 32 3/4 in. W. 54 in. H. MIL-M-58010 (TC). Procurement will be 100% small business set aside. FSN 1730-624-0684. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-76. Plate, clamp assembly, auxiliary
firewall support. P/N 1560.CV2-319-1. In accord.,
with TMC drawing, same number. APPL, CV2 Air-
craft. FSN 1560-856-2869. No clearance required for
APPI, USAAVCOM.

APPI No. AV-77. Tail pipe, engine exhaust assy.
in accordance with procurement package No. 204-
060-302 dtd 10 Sept., '64. APPL., UH-1 Aircraft.
FSN 2990-767-9212. No clearance required to obtain
APPL. US/AVCOM.

APPI No. AV-78. Indicator, pressure. Dial, 1. Torque pressure scale, 0 PSI to 50 PSI, 1 PSI graduated increments, finish of graduations, fluorescent letters numerals and lined increments pointer data, clock hand type, fluorescent illuminated, in-cased W/O Instrument lamp socket, electrical data, 26V AC, 400 cycles, single phase, connection data, electrical, 1, 3-PIN contacts, and 100660-10SL-3P. O/A dim. 2 5/8 in. L., 2 in. dia., clamp mtg., MIL-1-25578, Type MO-3, Appl., Engine instrument, Aircraft. **RRN 6620-581-2268.** No clearance required for **RRN USAAYCOM.**

APPI No. AV-79. Indicator, liquid qty. Dial, scale, fuel quantity, 0 lbs to 4500 lbs., 100 lb graduations, increments, finish of graduations, fluorescent letters, numerals and lined increments, clock-h pointer, fluorescent illuminated, incased, W/O instrument lamp socket, DC Electrical connections 4-Pin contacts, Benilux Aviation Corp., part No. 1H-14-19P, O/A dim., 5.50 in. L., 2.00 in. W. clamp mtg., FSN 6680-847-7197. No clearance required to obtain API. USAAVCOM.

APPI No. AV-80. Valve, directional. In accordance with procurement package No. 111. Application, aircraft. FSN 1650-739-2635. Clearance required to obtain APPI. USAVCC

APPI No. AV-81. Valve, regulating, fluid pressure rating, 1350 PSI 3000 PSI Max. inlet pressure rating, 1350 PSI 1700 PSI, reduced outlet pressure range 3.5 GPM max flow capacity at Max. rate inlet and outlet pressures, minus 65 deg. F. to plus 275 deg. F. working temp. range, designed for hydraulic fluid body style 25, sect. A, RDG 250, Aluminum alloy, cress seat and disk seating surfaces, single stage, manually regulated, end connections identical female type, 3/8 in. OD tube size, 9/16 18 1/2 UNF, RH, Internal thread, spring loaded, appl., drainic installation, aircraft. FSN 1650-056-2304. Clearance required to obtain APPI. USAAVCOM.

APPI No. AT-49. Counter Shaft W/Integral gear
HS FSN 2520-752-1037. No clearance required
obtain APPI. USATAC.

APPI No. AT-50. Cylinder assembly, unit air
inlet, hydraulic brake booster, FSN 2530-040-21
No clearance required to obtain APPI. USATAC

APPI No. AT-51. Semi-trailer, low bed, 25
4 wheel, M172A1. FSN 2330-317-6448. No clear

APPI No. AT-52. Mirror assembly, rear view left. FSN 2540-575-8392. No clearance required to obtain APPI. USATAC.

APPI No. AT-53. Hook, Tow quick attach
FSN 2540-706-8219. No clearance required to ob
APPI. USATAC.

APPI No. WE-29. Fixture, lathe, metal cutting tool, designed for milling, drilling, boring, key-seating and other operations on engine lathe. Holding capacity 2" diameter, vertical travel 3". Weight 56 lb. No clearance required to obtain A. **USAWECON**

APPI No. WE-30. Lathie, brake drum, mounted, 60 in. rated swing, 25 in. maximum dia., 9 in. nilinidum drum dia., 10 in. maximum dia. of cut, stationary cutting tool type, with grinding provisions, 1 HP drive motor, AC, 115 V, 60 c single phase, 1/2 HP grinding motor, AC, 115 V, 60 cycle, single phase: in accord., with fed 00-L90, size 11. No clearance required to o

APPI CO. WE-31. Soldering gun: AC, 115 V cycle, single phase loop shape tip 0.161 inch diameter 0.372 inch wide, 0.263 diameter, 5/16 inch diameter thread fastening, 24 thread per inch, dual heat control in accordance with Fed. W-1-564A, Type I, Cord Assembly B, Class 2 tested and rated at IT's lowest wattage output.

clearance required to obtain APPI. CANCELLATION OF APPI No. MI-36. Published previously in APPI No. 10, 1975. REL Tri-Pack Containment model 5" dia. 19" high 21 1/4" wide weight 68 lbs. snow sized

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44-38861-246
 The principal basis for im-
 posed sanctions are 4
 a) restricted travel for use of
 b) the valuable scientific species
 44-38861-246 and other
 44-38861-246 at Pied W. 41
 44-38861-246 2nd 44-38861-246 and
 44-38861-246 41 44-38861-246 imposed
 44-38861-246 for APPC/USAC

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NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** published by the U. S. Dept. of Commerce, (Chicago, Ill.) issue, dated May 3, 1966, page 2, No. PSA 3561-1097 that the potential support source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

44-38861-10, Extractor Ruptured
A heat treated steel tool with
a small grade from upset for
a requires to receive the

to W.E.M. Band, Lower, for
complete, steel casing plus strip
casing required to receive the
rod

Pen, Pad, Shoulder, Coat
Pen security

Ref. WE-36, Pm. Firing. for MI
Official heat treatment and grain
analysis requested to receive th

APPI. No. AT-55. Track, Shoe Section, SNL APP
G293. FSN 2530-730-7343. No security clearance re-
quired to obtain this APPI. USATAC.

APPI No. AT-S6. Final Drive Assembly, Left and Right, M113 and M113A1. FSN 2520-895-9164. No security clearance required to obtain this APPI. USATAC.

APPI No. AT-58. Cylinder Assembly, Engine, W/Valves and Rollers. FSN 2805-040-0339. No Security clearance required to obtain this APPI. USA-TAC.

APPI No. AT-59. M113, Armored Personnel Carrier, Combat essential and high mortality components and repair parts list. This is an advanced planning procurement listing of items defined by name and Federal Stock Number. Current and future Fiscal Year requirements for each of the listed items are being generated and will be available, upon request, during the month of June 1966. No clearance is required to obtain the APPI. USATAC.

APPI No. AP-15, Rev 1, Ammunition Item—
Metal fabrication projectile TP-T 90MM M353 MPTS
14.2" Max long x 3.537" OD. Body is one piece
design 10.15" x 3.537" OD, threaded nose, rotating
band and crimping grooves, material, steel, HR
carbon-ber. annealed. Pos.

conduits, extending Bessemer stock; rotating band 3.55" OD x 1.255" wide x .21" thick material, gilding metal, class B annealed; windshield cone shape varying wall thickness aluminum alloy die casting comp A380 body and windshield assembled with thread sealing compound, cleaned and painted; plug of aluminum alloy anodine finish; disc, p/bond 20 sealed into plug with adhesive. Subjected to rigid inspection. Manufacturing firms bidding this item will require highly competent staff of engineers, metallurgists, chemists and tool and die engineers. Very difficult to manufacture to government specs in large quantity. No clearance required to obtain APPI. AP-USAMUCOM.

APPI Na. AP-30, **Rz I.** Ammunition item—Projectile, high explosive, 4.2", M329A1, MPTS, 16.395" max length x 4.193" max outside diameter, 3-piece design. Consists of body 3.73" inside diameter tapers to 3.062" nose opening, material, non-resulphurized steel tube. Adapter nose, (non-resulphurized steel) threaded. Base, L.H. thread on one end (non-resulphurized steel). Each component must have minimum yield strength of 45,000 lbs. PSI at .1 percent offset. Interior and exterior cleaned and phosphatized. Lusterless enamel or lacquer on exterior must withstand 144-hr salt spray. Item considered difficult to manufacture. No clearance required to obtain APPI. AP-USAMUCOM

APPI No. AP-32, Rev 1. Ammunition item—Projectile, high explosive, 105MM, M442, MPFS. Approx 20.422" long x 4.223" diameter. Four components. Body, approx 14.03" long x 4.128" outside diameter at one end tapering to 2.38" at nose. Inside diameter varies from 3.105" at larger end and up to 3.505" agent to 2.4" radius tapering down to 2" thread at nose. Material, iron, pearlitic malleable casting, spec MIL-C-46971, minimum yield strength of 70,000 pounds PSI with 2 percent minimum elongation. Base, approx 5.67" long x 4.128" outside diameter tapering to 3.547" boattail (steel). Rotating band blank (sintered iron). Plug, 1.97" long x 2.412" outside diameter, 2" external thread one end and 1.25" hexagon head on other (aluminum alloy die casting). Base silver head on other (aluminum assembly must withstand hydrostatic pressure test of 100 pounds PSI and air pressure test 150 pounds PSI. Base forgings and body casting require heat treatment. Inspections base and body, magnetic particle, body casting, ultrasonic. Ballistic tests for reproduction or breakup of projectile metal parts. Producers require highly competent metallurgists, engineers and tool designers. Item considered extremely difficult to produce. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-3S, Rev 1. Ammunition item—Projectile, TP-T, 105MM, M489 assy, 25.88" long x 4.13" diameter. Consists of eight (8) components. Body, .09" long x 4.128" diameter x 3.052" inside diameter, inside threads both ends. Material carbon steel, unfinished or special bar quality or seamless steel tubing Base 9.33" long x 4.111" diameter tapered .144" thread both ends outside. Material, aluminum alloy forging. Spike, 7.610" long x 4.111" diameter head section, stem section 1.322" diameter tapered to 1.2" diameter 6" long, thread both ends. Material, aluminum alloy forging. Fin, 3.69" long x

APPI No. AP-3S, Rev 1. Ammunition item—Projectile, TP-T, 105MM, M459 assy, 25.88" long x 4.13" diameter. Consists of eight (8) components. Body, .09" long x 4.128" diameter x 3.052" inside diameter, inside threads both ends. Material carbon steel, unfinished or special bar quality or seamless steel tubing Base 9.33" long x 4.111" diameter tapered 1.44" thread both ends outside. Material, aluminum alloy forging. Spike, 7.610" long x 4.111" diameter head section, stem section 1.322" diameter tapered to 1.2" diameter 6" long, thread both ends. Material, aluminum alloy forging. Fin, 3.69" long x

APPI No. AP-36, Rev I. Ammunition Item—Projectile, HEAT, 106MM, M344A1 with M8 fin, metal parts. Projectile assy, 16.43" long x 4.128" diameter. Consists of 10 components body, 7.68" long x 4.128" outside diameter, 3.555" inside diameter, counter-bored and internally threaded both ends. 2 borelets.

and annular groove on outside diameter. Material, seamless steel tubing or special bar quality steel forging. Gudge, 8.116" long, hollow truncated cone with 4.11" outside diameter tapering to 1.3713" on opposite end, .144" wall thickness, external threads both ends. Special bar quality steel forging or cold extrusion steel. Cone, 3.819" long, hollow truncated cone closed on small end, 3.564" outside diameter tapering to about .616" on opposite end, .10 wall thickness, cold rolled, deep drawing annealed strip copper. Chamber, 3.10" long x 3.938" outside diameter, external thread one end, internal thread on other followed by radius, reverse angle taper, 1/8 thread, counter bore and 1.264" thru hole with 4 equally spaced longitudinal slots on circumference. Aluminum alloy. Plug, .39" long x 1.873" outside diameter, 1/8 thread, 2 blind holes 180 degrees apart on base, one blind hole on longitudinal axis opposite end. Aluminum alloy. Fin assembly, 1.122" long x 3.938" diameter. Consists of 16 components. Major components fin, 6 each, 8.93" long, varying in depth from 1.544" at base to .929" at outer extremity, .040" thick at top to .260" at bottom, .25" hole thru base with full depth involute spur gear tooth space on outside radius at base bottom. Aluminum, forging. Housing, 2.91" long x 3.938" outside diameter. 1.687" inside diameter, 6 pair lugs one end .25" hole thru each, other end counterbore. Aluminum alloy or forging. Piston, stop, .51" long x 1.824" outside diameter unthreaded and tapered. Carbon steel bar. Item must withstand tests for metal part security, fin opening and penetration. Manufacturer requires engineers, metallurgists, tool designers. Item considered extremely difficult to produce. No clearance required to obtain APPI. AP.

APPI No. AP-44, Rev 1. Ammunition Item—Projectile, 105MM, HEPT, M393A2 MP7S, 15.84" long by 4.126" outside diameter, 3 components consisting of body assy, 15.34" inches long by 4.123" outside diameter, one piece design, varying wall thickness from approximately .30" to .135", parahola shaped nose, 2 rotating band grooves, counterbore and threaded base enil, material, steel, carbon, ASTM A107-58T. mechanical properties, yield strength 70,000 PSI, elongation 10 percent. Rotating band blank, two (2) 4.14" inside diameter by .240" wall thickness by .775" long, material, gliding metal, spec MIL-B-20292. Body and two rotating band assy must withstand an internal air pressure test of 100 PSI minimum for 15 seconds. Ping bags, 3.00" long by 4.06" outside diameter of shoulder, two holes 180 degrees apart 5/16" diameter by 5/16" deep, threaded cavity in base end, 5/8" diameter by .35" deep, opposite end threaded cavity 1.80" diameter by 1.94 thread, material, aluminum alloy, 2024-T4 or 2024-T3510, specification QQ-A-267, aluminum alloy, 6066-T6 or 6066-T351, specification MIL-A-25493. Manufacturing firms bidding this item will require a highly competent technical staff of engineers, metallurgists, chemists and tool design engineers to design, fabricate and maintain precision tools required to mass produce. This projectile is considered very difficult to produce to applicable specifications. No clearance required to obtain APPI, AP-USAMUCOM.

APPI No. AP-72. Ammunition Item—Projectile, Chemical, M121E1 MPTS—consists of six (6) components, body, approx 23.75" long by 6" diameter, nose section threaded and precision finished within .06 to .32 micro-inches, material, steel, ASTM-A273 or MIL-A-11310, adapter, size, 2.88" diameter by 2.23" length by 1.909" inside diameter, external and internal threads, material steel, ASTM-A107 special band, 6.36" diameter by 9.09" inside diameter by .076" wide, material, gilding metal, spec MIL-B-20292 or MIL-B-20295, gasket, 2.19" diameter by .84" inside diameter by .125" thick, material, rubber, neoprene, type S, class SC, grade SC515, spec MIL-R-3065, VCI paper, approx 20" square, material, volatile corrosion inhibitor paper, type 1, class 1, style C, Spec MIL-P-3420, gasket shipping, 2.83" diameter by 2.5" inside diameter by .13" thick, material rubber, Spec MIL-R-3065, type S, class SC, grade SC820 A, B, as specified in MIL-STD-417, magnetic particle inspection in the nose section of each projectile is required. Each projectile must withstand a helium gas test. Exterior is surrounded with one atmosphere of helium, a maximum of twenty (20) microns of mercury absolute pressure.

♦ Notes (All Frankford Arsenal Items thus (♦)
indicated require large production quantities,
APPI Nos. FA-28 thru 35)

APPI No. FA-29. ♦ Fuze M505A3 is used with the 20mm HEI ammunition. It consists of a body assembly, a rotor assembly and a booster holder assembly. The body assembly consists of an aluminum alloy firing pin and a rotor safety spring of corrosion-resisting steel wire contained in a steel body and covered by a sheet steel cover. The rotor assembly consists of a brass rotor containing the detonator. The booster holder assembly consists of a steel holder housing the booster. No clearance required to obtain APPI. FA-USAMUCOM.

from steel and is welded to the body. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-32. Metal boxes, M548, are reusable steel boxes having hinged covers sealed by means of a rubber gasket. These containers are used for packing small arms ammunition and are designed to withstand all conditions commonly encountered in handling, storing and transportation of ammunition. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-34. ♦ Metallic Belt Links M14A1, are used with 20mm and 7.62mm cartridge in machine guns. The links are made of steel processed for rust prevention and are required to meet specific test requirements to assure satisfactory ammunition feed and functioning under all service conditions. No clearance required to obtain APPI FA-USAMU-COM.

APPI No. ME-84, Air Conditioner, Wall Mounting, monochlorodifluoromethane, closed type compressor, air-cooled condenser, electric motor powered, 1 EM for compressor, 4 HP, AC 208 V, 400 Cycle, 3 Phase, 1BM for condenser fan 3/4 HP, AC, 208 V, 400 Cycle, Phase 1 EM for Evaporator Fan 3/4 HP, AC 208 V, 400 Cycle, 3 Phase, cooling, 18,000 BTU per hr, 600 CFM heating capacity, 12,000 BTU per hr, 600 CFM, Type 11, in accordance with MIL-A-52344A, FSN 4120-060-4307. No security clearance required to obtain this APPI. USAMEC.

APPI No. ME-86. Generator Set. Diesel Engine, 60 KW, AC, 0.8 PF lagging, 400 Cycle, 3 Phase, 4 Wire, 240 V line to neutral and 416 V line to line. (240/416 V) WYE, 3 Phase, 4 Wire, 120 V line to neutral and 208 V line (120/208 V) WYE; liquid cooled portable, skid mounted, winterized, precisc power in accordance with MIL-G-52146 with amend 1; FSN 6115-752-2092. No security clearance is required to receive this APPI. USAMEC.

APPI No. ME-87, Roller, Towed, Sheepfoot, 2 drums in line, oscillating type frame, drum 40 in. to 44 in. dia, 48 in. wide; tamping foot data, 7 in. min length overall, 5 sq in face area, 88 to 112 per drum, 8 ft to 10 ft compaction width in accordance with MIL-R-1284B, with amend 1; FSN 3895-263-0121. No security clearance is required to receive this APPI. USAMEC.

APPI No. ME-88, Roier, Towed Pneumatic Tired.
Hopper frame, 100 cu ft min ballast capacity; 13
tires; 9 ton; 84 in., rolling width; in accordance with
MIL-R-11806B with Amend 1; FSN 3895-227-1599.
No security clearance is required to obtain this
APPI. USAMEC.

APPI No. ME-89, Scraper, Earthmoving, Towed.
7.5 cu. yd. struck capacity scoop; hydraulic; 4 wheel.

APPI. USAMEC.
APPI No. ME-90. Truck, Lift, Fork. Diesel engine driven; pneumatic tires; rough terrain 600 pounds at 24 in load center; 144 in lift, 24 volt electrical system, power operated transmission in accordance with MIL-T-21863B with Amend 1, FSN 3930-073-8751. No security clearance is required to receive this APPI. USAMEC.

APPI NO. ME-32R1 (Revision). Generator Set. Diesel Engine, AC, 15 KW, 60 Cycle, 0.8 power factor, multi-purpose: self-excited; prime mover is a liquid-cooled radiator type, electric motor cranked, 24 volt cranking voltage, skid mounted; fully enclosed, overall dimensions 65 in long 30-7/8 in wide 48 in high, with radio interference suppression; with following special features. A 100 AMP battery charging system, a power receptacle connection plate and presee power, in accordance with MIL-G-53480; FSN 6115-889-1370. No security clearance is required to receive this APPI. USAMEC.

APPI No. ME-42B1 (Revision 1-78) Fabric Coating Inside
lapable, Nylon 66, 150 Denier, rubber coating inside
and outside, 1/2 inch wide, 1/2 inch high, 1/2 inch
water, 3000 ft. roll, 1/2 inch wide, 1/2 inch high, 1/2 inch
with staples, 1/2 inch wide, 1/2 inch high, 1/2 inch
cloth in accordance with MIL-T-14398D; FSN 5430
335-4486D. No security clearance is required to
obtain this APPI. USAMEC.

APPI No. MI-49R1, Battery/Gas Bottle Assy—Redeye Missile System—This assembly supplies electrical power and freon gas coolant to the Redeye Guided Missile Weapon prior to launch. Activation of the thermal battery is accomplished by an impulse generator located in the Redeye launcher which also detonates the explosive activated freon release mechanism which shears an external gas release tube in the Battery/Gas Bottle Assy. The overall dimensions of the assembly are 5 inches in length and approximately 2 inches in diameter. The gas bottle is spherical in shape and is fabricated from stainless steel. The bottle is approximately 1.5 inches in diameter and is capable of a proof pressure of 7100 psi at -70°F. The battery/gas unit case, electrical connector and threaded cap are fabricated as a one-piece molded plastic part. The assembly is a one time operation device. No Federal Stock Number assigned. The battery is Government furnished equipment. No clearance required to obtain APPI. This synopsis supersedes synopsis MI-49 published on 5 April 1966. USAMICOM.

APPI No. MI-50. Container—Chapparral Missile—This container consists of an inner aluminum tube approx 116" long by 8" O. D. shockmounted to parallel aluminum angle members, surrounded by a rigid closed cell polyurethane body contained in a thin perforated aluminum skin. The inner aluminum tube has an access cover on one end and the outer aluminum skin has hinged and latched end covers. 6 slots are provided, 3 on each end, in the polyurethane cell for storage of the missile wings and canards (fins). The container has approx. outside dimensions of 125" long by 19" high by 18" wide and is designed for stackability. Weight is to be 95 lbs or less. No Federal Stock Number assigned. Procurement may be a small business set-aside. Confidential clearance is required to receive this APPI. USAMICOM.

APPI No. MT-51. 1. Case Assembly Rocket Motor (Sergeant Missile System) 2. Rocket Motor Assembly Rocket Motor System (Missile System) No Federal Stock Number assigned and cancellation on this procurement may be made on or after May 1966 interested firms should contact the Missile Command AIMLO immediately. No clearance required to obtain this APPI. USAMICOM.

APPI No. MI-52. 1. Body Sections Guided Missile (Sergeant Missile System). 2. Control Surface Assemblies (Sergeant Missile System). 3. Released Sub-contracting program. This contract is a sole source program. It is requested that you request additional information and contact Sperry Utah Co., 1000 E. 1000 S., Salt Lake City, Utah. No Federal Stock Number Assigned. No clearance required to obtain this. APPI. USAMICOM.

APPI No. MI-53. Test Set Semi-Automatic Performance Evaluator (Rate Table) for Guidance Control Group of Chaparral Missile. Tests consist of a complex assembly of electronic test equipment, electronic equipment and provisions of (e) and (f) required for weapons Specification 283-100. This item is considered extremely difficult to manufacture and requires an intimate knowledge of the Chaparral Missile. This release is of primary interest to firms desiring to act as sub-contractors. No Federal Stock Number Assigned. No clearance required to obtain this APPI. USAMICOM.

APPI No. AY-82. Servocylinder Hydraulic. 1 cylinder, hydraulic operation; double end action; 3,500 in. lg. strokes; 937 in. size bore, hydraulically operated, by-pass valve; o/a diam. 14,340 in. lg. 2,874 in. w., 2,600 in. thk; 2 mtg. holes, 1/4 in. dia., 2 parallel holes located at fork end, 350 in. from center of hole to end of fork; Appl. Control Inst.

APPI No. AV-83. Control, Remote, Fire Extinguisher. For use on Army Aircraft. Ord Drawing 7968270. FSN 1680-182-3897. No clearance required to obtain APPI. USAAYCOM.

APPI No. AV-64. Maintenance Platform. Adjustable, hydraulic adjustment; 3 ft. to 10 ft. working level H range; platform floor, 1 working platform, steel plate material, w/4 wheels, w/o locks; equipped w/ladder, w/safety guards around platform, fixed type; max. o/a dim., 131 in. lg., 44 1/2 in. w., 123 in. h., MIL-M-5777B, Type B. FSN 1730-390-516. Procurement will be 100% small business set aside. No clearance required to obtain APPI. USAAV-COM.

APPI No. AV-85. Jack, Hydraulic, Tripod, 5-Ton capacity, 23 9/16 in. low h., 16 in. hydraulic lift, w/screen extension, 12 in. h., w/leg extension, 2 sets, 75 9/16 in. max. extended h., w/removable pump. MIL-J-7399, Type B5; FSC Appl., Acft. Gnd. Servicing Eqpt, FSN 1730-516-2018. Procurement will be 100% small business set aside. No clearance required to obtain APP, USAAVCOM.

APPI No. AV-86, Test Stand, Hydraulic Systems Components, Portable, test aircraft hydraulic systems; 3,000 to 5,000 psi operating pressure, 5 to 100 gpm flow capacity, gasoline engine driven 23 to 31 HP, w/filtration system, w/pressure and suction hose, suction side of pump will withstand 100 psi gauge pressure. MIL-T-7612, Type D5B, FSN 4920-141-8601. This procurement will be 100% small business set aside. No clearance required to obtain APPI. ISAAVCOM.

APPI No. AV-87. Scale, Aircraft Weighing, 150,000 lb. max cap., portable, incl. carrying case, 110V 60 Cy. single phase; DC, 22V to 28V; Indicator, dial, 5100 lb., dial graduations in 10 lb. Increments; accessories per specifications, MIL-W-7327A, 7327A Type C-1, and MSS 6670-1. FSN 6670-526-8498. No clearance Required to obtain APPI. USA-AVCOM.

APPI No. AV-88. Tester, Pyrometer and Thermocouple. Field, Type N-3A. Potentiometer and MV circuit principle. Scaie reading data 22,50V to 2850V range. Form 0.5V accuracy rating, calibrated to 12 \pm 24V. Resistance thermometers calibrated to iron constantan and chromel alumel thermocouples. Scaie data 3 1/2 min lg, o/a dim. 18 1/2 lg x 10 1/2 in. w. x 6 in. h., portable. Oove Spec. Data, MIL-T-58082, Type N-3A. FSN 6695-762-0057. No clearance required to obtain APPI, USAVAC, INC.

APPI No. EL-59. Terminal Telegraph AN/TCC-4 () Terminal Telegraph AN/TCC-4() comprises the equipment required at one end of a circuit to provide up to 8 two-way telegraph channels on any 2 wire or 4 wire voice frequency or carrier telephone circuit. No security clearance required. **USECOM.**

APPI No. EL-60. Central Office Telephone Manual AN/TTC-7A. A complete telephone switching center to inter-connect common battery and trunk lines may be expanded on a 4-panel multiple basis to inter-connect 1000 lines and 160 trunks. No security clearance required. USAECOM.

APPI No. EL-61. Telephone Central Office Group, Manual AN/GTA-14(V). A grouping of components when installed in shelters or vans provide facilities for a manual Telephone Central Office operation. No security clearance required. USAECOM.

APPI No. EL-62. Radio Set AN/VRC-24A. A vehicular DC powered UHF Ground-to-air radio set. Provides for operation with Clonity Equipment TSEC/KY-8 and Radio Set AN/GRC-5(). No security clearance required. USAECOM.

APPI No. EL-63. Telephone Set TA-312/PT. A light weight portable field telephone designed for general purpose use. Has one-way interchangeability with TA-43/PT. No security clearance required. USAECOM.

APPI No. EL-64. Receiver-Transmitter Radio Set RT-246/VRC. A rugged, compact FM receiver-transmitter in a watertight case. It may be manually tuned from the front panel to any frequency in the range of 30 MC to 75.95 MC in 50 KC increments or automatically tuned from the front panel, or remotely, to any of ten pre-set frequencies within the 30 MC to 75.95 MC tuning range. No security clearance required. USAF.COM.

APPI No. EL-65, Receiver-Radio R-442/VRC. A rugged, lightweight, compact, FM receiver fitted in a watertight case. The receiver is manually tunable over the frequency range of 30 MC to 75.97 MC in 50 KC increments covered in two bands. No security clearance required. USAECOM.

APPI No. EL-66, Receiver-Transmitter Radio R1 524/VRC. A rugged, compact FM receiver-transmitter in a watertight case. It is tuned manually from the front panel to any frequency in the range of 30 MC to 75.95 MC in 50 KC increments. A integral loudspeaker is mounted on the front panel. No security clearance required, USAECOM

APPI No. EL-3, Radio Set AN/GRC-106,
cancelled.

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated June 7, 1966 page 2, No. PSA 3798 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AP-4, Rev. 2. Buzzer, M12SAI, assembly, MRB's, with loaded M17 detonator, approx. model, 2 inch diameter by 2 inch long, booster with active, 60 such assemblies and 9 component, balance with assembly, balance, .24 inch OD by 12 inch long, with 12 fins 22 inch across diameter with 62 inch center hole material, brass, composition 1 or 2, F4133 hard, specification QQ-S-626, steel, balance, F4133 hard, temper by .316 inch thick material, FS1117 or FS1141, specification QQ-S-633, or steel, sintering class 416, specification QQ-S-743, pin, 12 end ID 18 inch OD by .113 inch long, material steel, carburizing, FS410, condition 15, specification Q-Q-W-423, or steel, corrosion-resistant, FS410, condition 15, Specification QQ-S-767, bolts under 10, 15 comp., thin body, 2 inch OD by .144 inch long multiple machine operations, material, brass, spring face machining, specification MIL-B-1018, shaft ext., 11 inch OD by .68 inch long, the unit long head on OD, pin, detent springs 12 each, .064 inch OD by .345 inch long, pin, detent top, 12, .045 inch by .345 inch long, pin, detent bottom, 12 each, .075 inch OD by .25 inch long, material for base shift and above pins, steel, carburized, class 416, specification QQ-S-743, or steel, FS1117 to FS1141, specification QQ-S-633, cover dia. 1/2 inch thick, approximately 1/2-1/8 inch OD by .68 inch high by .04 inch wall thickness, current plate, phosphor-bronze material, grade 1, type C112, two screws 1/4 x 1/4 inch electric shape, approximately .344 inch long by .132 inch wide by .008 inch deep, material, brass, composition 2 or 3, 14 mils thick, and D113 or silvered brass, .745 gram weight, 20 per cent zinc, 15 per cent lead, pin female, 12 inch PMS, clamp size to 12 PCT escape wheel and drive, 12 composition wheel, escapier star wheel, 12 teeth, 12 spaced, .174 inch point to root diam to .02 inch thick material, steel FS1133 hard to finish CW annealed, temper No. 3, specification QQ-S-633, or steel, sintering, composition 1, specification QQ-S-1173 MIL S-1173, pinion, gear, number 114, 4 inch OD by .316 inch long by .04 inch 14 inch long material, steel FS1137 min. Spec. QQ-S-633, or steel, carburized, class 416, specification QQ-S-743, No. 1, gear and pinion assembly, 2 composition year No. 1, 1435 inch OD by .032 inch thick 22 teeth with (.157 inch diameter by .24 inch center hole material, brass, composition 1, 24 hard min spec QQ-B-613, pinion No. 1, 1435 inch OD by .316 inch long with 9 teeth, material steel, FS1137 min. spec QQ-S-633, or steel, carburized, class 416, specification QQ-S-743, No. 2, gear and pinion assembly, gear, No. 2, 4496 inch OD by .045 inch thick, 22 teeth, 171 inch IL, 8 spline center hole, material, same as gear No. 1 pinion, No. 2, 1162 inch OD by 344 inch long by .045 inch material, same as pinion No. 1, plate, dimension, 1614 inch OD by .032 inch thick, with corners and various dia holes, round, oval or kidney shape, approximately .9 inch long by .9 inch wide at maximum points, with (4) vari-angle dimensions for materials, brass, sintered, spec H-12128 or brass, composition 1 or 2 half hard, spec, heat-treated, QQ-B-626, gear, rotor, gear segment, 1012 inch OD by .070 inch thick by 42 teeth in total decrease 1/2 inch actual number generated in a 120 degree mating material, brass, composition 24, hard min specification QQ-B-613, cushion, detonator, 24 inch OD by .15 inch ID by .037 inch thick material, cork compressed commercial, pin, rotor gear, .04 inch diameter shank by 42 inch overall long by 14 inch diameter by .036 inch wide head, material brass, composition 1 or 22 hard, specification QQ-S-626, pin, rotor lock, 104 inch OD by .19 inch long material, steel, carburized, class 416, specification QQ-S-743, spring, rotor lock pin, .125 inch long by .078 inch ID by .006 inch wire dia, active bush, material, steel, wire, corrosion resistant, specification Q-Q-W-423, rotor with M17 lead azide detonator.
long by .146 inch di
inch (No. 1) 72NF
1 or 22, half hard
or wire, brass, half
.321, seal, dust 1/2
k, pressure sensitive,
agency approved
tent, .135 inch OD by
g and .35 inch leg by
ore diameter, material

APPI No. AP-32, Rev 1. Issued 3 May 66 for
projectile. HE. 105MM, M442. MPTS is hereby
cancelled since requirements for this particular
item have been withdrawn.

APPI No. AP-76. Fuze, grenade, XM 218 consists of /22/ components and /4/ assemblies. Detonator housing assembly, /7/ components, lockweight, approximately .194 inch long by .094 inch wide by .095 inch high with various notches and radii, material, lead alloy, grade 10, specification QQ-T-390, coated with molybdenum disulfide, four required, lockweight spring, approximately .35 inch free height, 5 coils, .174 inch diameter, .005 inch wire diameter, material, steel music spring wire, specification ASTM A228, protective finish number 1.8.2 of MIL-STD-171, M35 stab detonator, government-furnished, rotor housing, approximately .956 inch maximum diameter by .317 inch high with various sized holes and notches, material aluminum die casting, alloy SG-100B

specification ASTM-B85 /encl chamber process, rotor, approximately .526 inch diameter by .161 inch thick various holes and notches, material, aluminum alloy S-G100B, specification ASTM-B85 /cold chamber process, or aluminum 3003 temper "O". ASTM-B209, rotor spring, approximately .96 inches free height, 29 coils, .089 inch diameter, .005 inch wire diameter, material steel music spring wire, specification ASTM A228, protective finish number 1.8.2 of Mil-Std-171, rotor shaft, .216 inch long by .104 inch diameter, material, brass, roll, composition 22, half-hairl, specification QQ-B-626, cover, .962 inch diameter by .561 inch deep cup, .016 inch wall thickness, material steel, low carbon, sheet and strip, drawing quality QQ-S-698, protective finish number 1.9.2.2 or number 1.1.2.2 of Mil-Std-171, overaly, .865 inch diameter by .272 inch deep cup with .04 inch lip, .032 inch wall thickness, material, aluminum alloy, 2024, temper "O", specification ASTM B 209, protective finish number 4.3 of mil-std-171, Disc, safety, .711 inch diameter by .019 inch thick, material, steel, carbon, strip, cold rolled untempered spring, spherulidize annealed, number 1095A, OAC-PD-109, protective finish number 1.9.2.3 of mil-std-171, lead cup assembly, lead cup with rdx, government-furnished, delay housing assembly /13/ components, delay housing, approximately .956 inch maximum diameter by .366 inch high with various size holes and notches, material, aluminum die casting alloys 100B, specification ASTM-B85, delayrotor, .70 inch diameter by .213 inch thick, material, aluminum die casting alloy, SG-100B, specification ASTM-B85, protective finish, electroflin, number 4396, .0002 in, .0005 inch thick pr mil-1-8937, delay spring, .72 inch diameter, 5 coils, .018 inch wire diameter, 11.24 inch active length, material, steel music spring wire, specification ASTM A228, protective finish number 1.8.2 of MIL-STD-171, Rotor pin, .168 inch diameter head .025 inch thick, .040 inch diameter shank .167 inch long, material, half-hairl brass roll, specification ASTM B16, rotor latch, flat metal .044 inch width, .0045 inch thick, one end 90 degree twist, one end 90 degree hook, material, corrosion resistant steel strip, 301, 302 or 304, full hairl, finish number 2, specification QQ-S-766, lever "T" shaped, .224 inch long, .181 inch wide, .031 inch thick, material, corrosion resistant steel strip, class 302, specification ASTM A167, firing, pin, .150 inch diameter face .021 inch thick, .072 diameter shank 1.65 long with .066 inch wide by .024 inch deep tangential slot firing point on face 26 degree angle .031 inch long material, corrosion resistant steel bar, cold finished, class 416, condition A or T, specification OO-S-763, protective finish number 5.4 of MIL-STD-171, firing pin spring, .717 inch long, .210 inch wide, .010 inch thick, one end bent 30 degrees, one hole in each end, material, high carbon steel, 1095, conditions a or h, specification MIL-S-7947, heat-treat to Rockwell C44-C52 / or 63-71 on 30-N scale/, not required for condition H material/, protective finish number 3.3.1 of MIL-STD-171, firing pin guide, some configurations as firing pin spring, end bent 25 degrees, material, high carbon steel, 1095, hard temper, specification MIL-S-46049, protective finish number 3.3.1 of MIL-STD-171, cover and SAC assembly, /2/ components, housing cover, .770 diameter, .020 inch thick plate, material, corrosion resistant steel strip, class 301, full hard, specification OO-S-766, protective finish number 5.4 of MIL-STD-171, SAC, covers .625 diameter area of housing cover, material, Thermoplastic Strip Adhesive, GT-300, 50 gage with .50 mil resin. This item is considered difficult to produce to ordnance standards and specifications. Confidential clearance required to receive APII.

APPI No. AP-73. Enze, gremie, M219 consists of 21 components and 6 assemblies. Housing assembly 4 components, lockweight, approximately .194 inches long by .094 inches wide by .095 inches high with various notches and radii, material, lead alloy, grade 10, specification QQ-T-390, coated with molybdenum disulfide, 4 required, lockweight spring, approximately .35 inch free height, 5 coils, .174 inch diameter, .005" wire diameter, material, steel music spring wire, specification ASTM-A228, protective finish number 18.2 of MIL-STD-171, M55 Stab detonator, government furnished, rotor and housing assembly, 4 components, rotor housing, approximately .956 inch maximum diameter by .317 inch high with various sized holes and notches, material, aluminum die casting, alloy SG-100B, specification ASTM-B85, cold chamber process, rotor, approx., .526 inch diameter by .161 inch thick with various holes and notches, material, aluminum alloy SG-100B, specification ASTM-B85 cold chamber process or aluminum 3003 temper 0 ASTM-B209, rotor spring, approximately .96 inches free height, 29 coils, .089 inch diameter, .005 inch wire diameter, material, steel music spring wire, specification ASTM-A228, protective finish number 18.2 of MIL-STD-171, rotor shaft, .216 inches long by .104 inch diameter, material, brass, rod, composition 22, half-hard specification QQ-B-626, cover .962 inch diameter by .561 inch deep cup, .016 inch wall thickness, material, steel, low carbon, steel and

APPI No. AV-99. Valve, gate, aircraft, motor operated, fuel application, C11-47 rotary wing aircraft. FSN 2915-739-2548. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-100. Harness, aircraft safety shoulder. Designed for one person, 1 3/4 in. W. webbing, adjustable, 48 in. max adjustable lg. steel buckle. In accordance with MIL-11-5364 (USAF). This procurement will be a 100% small business set aside. FSN 1680-485-3047. No clearance required to obtain APPI. USAAVCOM.

APPI No. MI-54. Metal Parts Assembly, Sph Rocket Motor (M37A1) for IMPROVED M50 HONEST JOHN ROCKET. Assembly for M37A1 consists of 2 steel parts. (1) Rocket Motor Housing, 10" long and 3" diameter. (2) Nozzle, 3" diameter and 10" long. Electrical Stock Number assigned. This procurement will be a small business set aside. No clearance required to obtain APPI. USAMICOM.

APPI No. MI-55. Box, Shipping and Storage for Motor M66A1. for IMPROVED M50 HONEST JOHN ROCKET. Box is made of steel and has metal components. Approximate dimensions are 198.06" long, 38.06" wide, 12.81" high. Weighs 1657 lbs. FSN 2530-040-2100. No clearance required to obtain APPI. USATAC.

APPI No. AT-62. Kit, repair, hydraulic, sleeve cylinder. Trucks 2-1/2 Ton, 6x6. SNL APP G742, G863 and G835. FSN 2530-040-2100. No clearance required to obtain APPI. USATAC.

APPI No. AT-63. Cylinder, hydraulic brake assembly for use on G741, 3/4 Ton, truck, 4x4, all models. FSN 2530-737-5400. No clearance required to obtain APPI. USATAC.

APPI No. AT-64. Bearing assembly, plain, self-aligning w/insert track suspension, shock absorber snubber. In accordance with ORD DWG D-8382078. Rev F, dtd 25 May 63, vehicle application G254, G256, G287, G292, G305, FSN 3120-692-9104. No clearance required to obtain APPI. USATAC.

APPI No. AT-65. Door, cab, left assembly, (includes glass, trim and hardware) Trucks, 2-1/2 ton, 5 ton, 10 ton (6x6) SNL APP G742 (A/B), G744 (A/B), G792(A/B). FSN 2510-77-3293. No clearance required to obtain APPI. USATAC.

APPI No. AT-66. Curtain, vehicle: Truck cargo body, no. 8 cotton duck, olive drab. (fire, mildew, water and weather resistant) 5 feet 4 inches x 3 feet 3-1/3 inches. Complete with ropes, hooks, fasteners, and grommets. SNL APP G741. No clearance required to obtain APPI. USATAC.

APPI No. AT-67. Door, cab right assembly, (includes glass trim and hardware) Trucks, 2-1/2 ton, 5 ton, 10 ton (6x6) SNL APP G742 (A/B), G744 (A/B), G792(A/B). FSN 2510-77-3294. No clearance required to obtain APPI. USATAC.

APPI No. EI-67. Receiver-Transmitter Radio RT-505/PRC-25. Receives and transmits from signals in the frequency range of 30 to 75.95 MC. Pack mounted by hand for portable use. Also has provisions for operating from a 24 V vehicle source. No security clearance required for APPI. USAECOM.

APPI No. WE-37. Test Set, Ignition enfl, capacitor-resistor. In accordance with MIL Spec MIL-T-13016, 0 to 15 OHMS, 0 to 100,000 OHMS and 0.1 to 0.5 Microfarad scale, DC, 5 V through 0 V weigh two leads, 9 ft. lg with insulated clip terminals. Manufacturer must have equipment for making electrical tests of the unit. No security clearance required to obtain APPI. USAECOM.

APPI No. WE-38. Cartridge, soldering iron, non-electric. Round metal case, 1 29/32 in. lg. 3/4 in. dia. O/A. chemical filled metal case w/primer percussion cap. Requires experience and facilities for handling and loading chemicals and knowledge of safety requirements handling inflammables and explosives. No security clearance is required to obtain APPI. USAECOM.

APPI No. AV-89. Seal Assembly, Pilot, W/Armor, P/N 178061-1. Application, UH-1 Helicopter. FSN 1680-947-3440. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-90. Seat Assembly, Co-Pilot, W/Armor, P/N 178062-1. Application, UH-1 Helicopter. FSN 1680-947-3441. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-91. Pump Submerged, P/N 205-050-606-3. Application UH-1 Helicopter. FSN 2915-999-3705. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-92. Generator DC, 30-Volt, aircraft engine driven, Type GEU-5A. In accordance with MIL-G-6162. Application, UH-1 Helicopter. FSN 6115-725-1790. This is a OPL Item. Concerns interested in having their product tested and qual-

superstructure suitable for crane, clamshell, or dragline operations. The crane, together with various items of front end operating attachments, is to be used for handling materials, lifting and transporting loads for short distances, soft stripping, light duty earthmoving and pile driving. The front end dozer is for clearing obstructions which would impede the forward progress of the crane. It is not intended as a heavy duty bulldozer. In accordance with MIL-C-52341A; FSN 3810-060-2735. No security clearance is required to obtain this APPI. USAMEC.

APPI No. ME-14RI Revsklon. Tractor. Wheeled industrial, diesel engine driven; medium drawbar; power shift type transmission in combination with torque converter with a binged frame steering system, with two single front and two single rear, pneumatic lined driving wheels. This tractor is equipped with an earthmoving, hydraulic operated, tilling type bulldozer with back rip scarifier teeth. It is capable of towing heavy scrapers and other construction equipment and is air transportable. In accordance with MIL-T-52272; FSN 2420-088-6685. No security clearance is required to obtain this APPI. USAMEC.

APPI No. ME-56RI Revsklon. Heater, Duct type, Portable. A gasoline burning self-contained, ground portable heater, having a nominal uncontaminated warm air heat output of 400,000 BTU/Hr at a discharge temperature of 280 degrees F, at an ambient temperature of -65 degrees F, which can be operated as an entirely self-contained heater by using a gasoline power package. This heater uses an internal electric motor power package. Consists of the following major components: combustion chamber, heat exchanger, fuel system, ignition system, air control system internal accessories, and power package. Gasoline engine power package is an air-cooled, industrial type engine, includes preheating system to start engine for ambient temperatures from -10 degrees F to -65 degrees F. Electric power package includes: electric motor, operating controls, 268/220 V 60 cycles, 3 phase, alternating current. Heater assembly fully enclosed in a lightweight, substantially constructed metal cabinet or cabinets, which shall resist weather conditions. Overall dimensions approximately 20-1/2 in wide, 49 1/2 in length, and 26 in height. Trailer mounted; in accordance with MIL-H-4607A; FSN 4520-203-9274. No security clearance is required to receive this APPI. USAMEC.

APPI No. ME-56. Igniter Assembly, M58A1 for IMPROVED M50 HONEST JOHN ROCKET. Igniter Assembly is manufactured from steel forgings and other hardware. Assembly is disc shaped, 10 in diameter with a central hole in the center and a handle on the outside of the disc. Explosive compound is located in the center of the disc. This procurement will be a small business set aside. FSN 3810-1249. Since invitations to bid may be issued in June 66 interested firms should contact the Army Missile Command AIMILO immediately. No clearance required to obtain APPI. USAMICOM.

APPI No. AV-94. Indicator, Electrical Tachometer. Panel Mtg; 500 rpm to 4000 rpm o/a range, 100:1 equals 4000 rpm. Scale, 1, rpm, 5 to 4000 range of numerical marking, 100 rpm smallest increment, treatment, major and minor graduations fluorescent treated; 1 Pointer, rotating hand, fluorescent treated; Case, rd, o/a dim., 3.125 in. dia., 1.875 in. lg; Electrical connection, 1, 3 contacts, pin insert, ANA, and 100066D-10SL-3P; Operating mechanism, synchronous motor, AC; 1 to 2 speed ratio of generating transmitter to speed indications; Flush mtg., w/o totalizing mechanism; MIL-T-6329, Type E-35. FSN 6680-712-1424. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-95. Indicator, turn and slip. Integral stabilization, pointer, 1. Used to show pitch of Acft, fluorescent finish, w/o Instrument Lamp, 28V DC electrical connection, 1, 3-pin contacts, AN3102C-1051-3P, o/a dim., 5.5 in., deep, 3.5 in., H. panel mtg., MIL-I-7805, Type MD-8. FSN 6610-580-7922. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-97. Altimeter, pressure. Dia 1. Scale, 0 to 50000 ft, graduated in increments of 1000 ft, luminous letters and numerals. 7/8 in. deep, 3 1/4 in. dia. In accordance with MIL-T-28044. This procurement will be a small business set aside. FSN 6610-580-7922. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-95. Indicator, attitude. External stabilization, pointer, w/o instrument lamp, electrical connection, 3 contacts. In accordance with MIL-I-51338 Type J-8. FSN 6610-537-3101. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-98. Bracket assembly, access cover, latch support, application, CH-47 rotary wing aircraft. FSN 1560-064-9205. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-99. Valve, gate, aircraft, motor operated, fuel application, C11-47 rotary wing aircraft. FSN 2915-739-2548. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-100. Harness, aircraft safety shoulder. Designed for one person, 1 3/4 in. W. webbing, adjustable, 48 in. max adjustable lg. steel buckle. In accordance with MIL-11-5364 (USAF). This procurement will be a 100% small business set aside. FSN 1680-485-3047. No clearance required to obtain APPI. USAAVCOM.

APPI No. MI-54. Metal Parts Assembly, Sph Rocket Motor (M37A1) for IMPROVED M50 HONEST JOHN ROCKET. Assembly for M37A1 consists of 2 steel parts. (1) Rocket Motor Housing, 10" long and 3" diameter. (2) Nozzle, 3" diameter and 10" long. Electrical Stock Number assigned. This procurement will be a small business set aside. No clearance required to obtain APPI. USAMICOM.

APPI No. MI-55. Box, Shipping and Storage for Motor M66A1. for IMPROVED M50 HONEST JOHN ROCKET. Box is made of steel and has metal components. Approximate dimensions are 198.06" long, 38.06" wide, 12.81" high. Weighs 1657 lbs. FSN 2530-040-2100. No clearance required to obtain APPI. USATAC.

APPI No. AT-62. Kit, repair, hydraulic, sleeve cylinder. Trucks 2-1/2 Ton, 6x6. SNL APP G742, G863 and G835. FSN 2530-040-2100. No clearance required to obtain APPI. USATAC.

APPI No. AT-63. Cylinder, hydraulic brake assembly for use on G741, 3/4 Ton, truck, 4x4, all models. FSN 2530-737-5400. No clearance required to obtain APPI. USATAC.

APPI No. AT-64. Bearing assembly, plain, self-aligning w/insert track suspension, shock absorber snubber. In accordance with ORD DWG D-8382078. Rev F, dtd 25 May 63, vehicle application G254, G256, G287, G292, G305, FSN 3120-692-9104. No clearance required to obtain APPI. USATAC.

APPI No. AT-65. Door, cab, left assembly, (includes glass, trim and hardware) Trucks, 2-1/2 ton, 5 ton, 10 ton (6x6) SNL APP G742 (A/B), G744 (A/B), G792(A/B). FSN 2510-77-3293. No clearance required to obtain APPI. USATAC.

APPI No. AT-66. Curtain, vehicle: Truck cargo body, no. 8 cotton duck, olive drab. (fire, mildew, water and weather resistant) 5 feet 4 inches x 3 feet 3-1/3 inches. Complete with ropes, hooks, fasteners, and grommets. SNL APP G741. No clearance required to obtain APPI. USATAC.

APPI No. AT-67. Door, cab right assembly, (includes glass trim and hardware) Trucks, 2-1/2 ton, 5 ton, 10 ton (6x6) SNL APP G742 (A/B), G744 (A/B), G792(A/B). FSN 2510-77-3294. No clearance required to obtain APPI. USATAC.

APPI No. EI-67. Receiver-Transmitter Radio RT-505/PRC-25. Receives and transmits from signals in the frequency range of 30 to 75.95 MC. Pack mounted by hand for portable use. Also has provisions for operating from a 24 V vehicle source. No security clearance required for APPI. USAECOM.

APPI No. WE-37. Test Set, Ignition enfl, capacitor-resistor. In accordance with MIL Spec MIL-T-13016, 0 to 15 OHMS, 0 to 100,000 OHMS and 0.1 to 0.5 Microfarad scale, DC, 5 V through 0 V weigh two leads, 9 ft. lg with insulated clip terminals. Manufacturer must have equipment for making electrical tests of the unit. No security clearance required to obtain APPI. USAECOM.

APPI No. WE-38. Cartridge, soldering iron, non-electric. Round metal case, 1 29/32 in. lg. 3/4 in. dia. O/A. chemical filled metal case w/primer percussion cap. Requires experience and facilities for handling and loading chemicals and knowledge of safety requirements handling inflammables and explosives. No security clearance is required to obtain APPI. USAECOM.

APPI No. AV-89. Seal Assembly, Pilot, W/Armor, P/N 178061-1. Application, UH-1 Helicopter. FSN 1680-947-3440. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-90. Seat Assembly, Co-Pilot, W/Armor, P/N 178062-1. Application, UH-1 Helicopter. FSN 1680-947-3441. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-91. Pump Submerged, P/N 205-050-606-3. Application UH-1 Helicopter. FSN 2915-999-3705. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-92. Generator DC, 30-Volt, aircraft engine driven, Type GEU-5A. In accordance with MIL-G-6162. Application, UH-1 Helicopter. FSN 6115-725-1790. This is a OPL Item. Concerns interested in having their product tested and qual-

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field should contact the Bureau of Naval Weapons, Washington, D. C. No clearance required to obtain APPI USAVCOM.

APPI No. AV-93. Thermometer, Type C-13B. Self indicating. Bi-metallic. In accordance with MIL-T-6508B. Application, Multiple Aircraft. FSN 6685-557-5316. No clearance required to obtain APPI. USAVCOM.

APPI No. EL-68. Multiplexer TD-204 () (U). Provides facilities for Multiplexing pulse code modulated signals into one 48 channel pulse code modulated signal for use over video cable systems using cable assembly, special purpose, electrical CX4245/G. No security clearance required for APPI. USAVCOM.

APPI No. EL-74. Radio Teletypewriter Set AN/VSC-2(). Will provide SSB Voice, teletype and CW over 30 mile ground wave range. Set is installed in a truck, cargo, 1/4 ton - M151 equipped w/100 AMP electrical system set will be used in early phase of airborne operation. Similar to, but not interchangeable with Radio Teletypewriter Set AN/VSC- () No security clearance required to obtain APPI. USAVCOM.

APPI No. EL-75. Wire WD-I()/TT. General purpose twisted pair field communication wire. No security clearance required to obtain this APPI. USAVCOM.

APPI No. EL-69. Mounting MT-1029 NRC. Shock mount for Receiver-Transmitter, Radio RT-246/VRC and RT-524/VRC. Contains a junction box which serves as a voltage distribution point. Three additional power and control connectors are located on its lower portion. No security clearance required to obtain APPI. USAVCOM.

APPI No. EL-70. Distributor-Transmitter set, teletypewriter AN/GGC-9(). Used duplex one-way transmit operation of teletypewriter messages. No security clearance required for APPI. USAVCOM.

APPI No. EL-71. Control. Intercommunication Set C-2298 () VRC. Provides the necessary interconnections to remotely operate a receiver-transmitter, supplies intercommunications facilities to the operator of the unit and operators within the system. No security clearance required to obtain APPI. USAVCOM.

APPI No. EL-72. Antenna AS-1729(1)/VRC. A vehicular mounted whip antenna for use with a frequency modulated vehicular communications system operating in the frequency range of 30 to 75.95 mc. Matching unit is automatically adjusted to tune the antenna to perform at any frequency to which the radio set is tuned. No security clearance is required to obtain this APPI. USAVCOM.

APPI No. EL-73. Radio set AN/PRC-25(). A short-range portable man-pack, battery operated FM Radio Set, for use over the freq. range of 30 to 75.95 MC. Capable of operating from a 24 V vehicular system when used with Amplifier-Power Supply Group OA 3633/GRC. No security clearance required to obtain this APPI. USAVCOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated July 5, 1966 page 2 No. PSA 3778 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AT-68. Differential Steering Control Assembly. The ORD 10875026 differential steering control is a component of the control system for tracked vehicles and is a manual operated mechanism used for pivot steering. This control assembly consists of the following components: a. case, b. input shaft, c. output shaft, d. band type brake, e. gear shafts, f. drive gears, g. anti-friction bearings, h. internal linkage, i. gaskets, j. seals, k. o-rings, l. self locking nuts, m. hydraulic hose, n. common hardware. SNL APP G294 (A/B) G312A. FSN 2520-714-6135. No clearance required to obtain APPI. USATAC.

APPI No. AT-69. Regulator Generator, 25 AMP, 24 Volt. The ORD 8360020 Generator Regulator is used to control charging rate and voltage output of the engine mounted generator. It is a self-contained sealed unit normally mounted in engine compartment of vehicle. This regulator assembly consists of following components: a. cast base, b.

cast cover, c. sealing gaskets, d. terminal box, e. voltage regulator assembly, f. current regulator assembly, g. circuit breaker assembly, h. cover studs. SNL APP G245, G268, G289, G740, G741, G749, G838, G863. FSN 2920-335-4577 optional w/2920-953-9784. No clearance required to obtain APPI. USATAC.

APPI No. AT-70. Transmission Assembly. The ORD 10872096 transmission is used transmit driving power from the engine through selected gear ratios and speeds to driving wheels. This transmission is classed as a conventional synchromesh type with provision to mount a power take-off unit. This transmission assembly consists of the following components: a. case, b. cover assembly, c. clutch housing, d. attaching parts, e. shift mechanism, f. gear shafts, g. gears, h. anti-friction bearings, i. seals, j. gaskets, k. common hardware. SNL APP G863 (A) FSN 2520-884-4833. No clearance required to obtain APPI. USATAC.

APPI No. AT-71. Generator. Engine Accessory, 25 AMP, 24 Volt. The ORD 10950805 generator is an engine mounted, belt driven accessory used to generate electric current for vehicle operation, and in conjunction with a generator regulator is a major component of vehicle electrical system. This generator assembly consists of the following components: a. armature, b. field coils, c. carbon brushes, d. brush holders, e. cast end bells, f. anti-friction bearings, g. steel shell, h. lubrication fittings. SNL APP G741 (A/B) G749 (A/B) G838 (A) FSN 2920-903-9534. No clearance required to obtain APP. USATAC.

APPI No. AT-72. Master Cylinder Assembly. Hydraulic. The ORD 7411070 master cylinder assembly is a component of the air hydraulic brake system. Movement of the brake pedal linkage causes a piston in the cylinder assembly to force fluid into the air hydraulic cylinder which in turn through an air hydraulic piston actuates the wheel brake cylinders. This cylinder assembly consists of the following components: a. cast body, b. aluminum piston, c. steel spring, d. plastic cups, e. bleeder valve, f. brass elbow. SNL APP G744 (A/B) FSN 253B-741-107B. No clearance required to obtain APPI. USATAC.

APPI No. AT-73. Boot Assembly. Steering Knuckle. Front. The ORD 8327123 boot assembly is used to protect the exposed bearing surface of the steering knuckle during vehicle operation. This boot assembly consists of the following components: a. non-metallic boot with attached zipper, b. steel inner boot clamp with screw and nut, c. stamped steel outer boot clamp, d. screws for securing outer clamp ring to steering knuckle housing. SNL APP G744 (A/B) FSN 2530-832-7123. No clearance required to obtain APPI. USA TAC.

APPI No. AT-74. Head Cylinder w/valve Assembly. The ORD 8345154 cylinder head is a finished machined engine component which when installed completes the combustion chambers and valve assembly for respective engine. This head assembly consists of the following components: a. cast cylinder head, b. valve guides, c. valve locks, d. intake valve oil seal, e. valve springs, f. retainers, g. pipe plugs, h. expansion plugs, i. water nozzles, j. intake valves, k. exhaust valves, l. exhaust valve sep inserts. SNL APP G742 (A) G83H FSN 2805-040-2204. No security clearance required to obtain APPI. USATAC.

APPI No. AT-75. Winch Assembly, rear mounted. The ORD 7409980 winch is used on medium wrecker trucks and is mounted on wrecker body to rear of crane. It is a worm geared horizontal drum type equipped with internal automatic brake; level wind; and manual controlled (pneumatic operated cable tensioner. This winch assembly consists of the following components: a. cast drum, b. driving mechanism, c. automatic brake, d. swivel sheave assembly, e. level wind, f. cable tensioner, g. cable, h. mounting frame, i. controls. SNL APP G744 (A/B) FSN 2540-740-9980. No clearance required to obtain this APPI. USATAC.

APPI No. AT-76. Track Assemblies and Components for Combat Vehicles. This is an advanced planning procurement listing of critical items defined by nomenclature and Federal Stock Number. Current and future fiscal year requirements for each of the listed items are being generated and will be available on request during the month of July 1966. In some instances, qualification tests are required and specified. No clearance is required to obtain this APPI. USATAC.

APPI No. ME-15R1, Revision. Scraper, Earthmoving, towed. Shall be air transportable, pneumatic-tired, hydraulically controlled, self-propelled, towed, and capable of being towed by a tractor or truck. When specified, the scraper may be used as a 4-wheel or 6-wheel scraper. Capacity of not less than 18 cubic yards. The components of the scraper shall withstand any ambient temperature from minus 25 degrees to plus 125 degrees, F.

The scraper shall withstand operation over any improved terrain, convey operations, and earthmoving operations under varying weather conditions and on 20 per cent side slopes without breakage or permanent deformation. Shall load undisturbed soil, haul, dump or spread the soil, operate at a max. speed of 25 mph and an average speed of 20 mph when handling heaped loads. Load, without the use of a pusher tractor, undisturbed soil to a struck capacity of 18 cu. yards in 75 to 90 seconds. Cut at all depths from ground level to 15 inches below ground level. The scraper bowl shall be of the front loading, open-howl type complete with apron, blade base, ejector, cutting edges, and side bits. A push plate shall be provided at the rear of the scraper, also one or more rear towing hooks able to withstand a pull of 100,000 pounds, min. throat opening 1-1/2 inches. Scraper shall be provided with tiedown attachments. Scraper is intended for general earthmoving work in the construction of roads and airfields. In accordance with MIL-S-52271; FSN 3805-990-4214. No security clearance required for APPI. USAVCOM.

APPI No. ME-16R1, Revision. Generator Sets, gasoline engine driven, 1.5 KW, alternating current, air cooled, portable, tubular frame, shock mounted, 60 cycle, 240 volts line to line, single phase, 1.0 power factor, self-excited. Equipped with a military standard engine. Model 2A016, manually cranked by rope, overall dimensions 27-3/4 in. long, 20-3/8 in. wide, and 18-1/2 in. high. Operating speed for the set is 3600 rpm. The sets are intended to supply power for general purpose use. In accordance with MIL-G-52282, type 1; FSN 6115-889-1446. No security clearance required for APPI. USAVCOM.

APPI No. ME-20R1, Revision. Boat Bridge Erection, inboard engine. Two sections, aluminum hull, gasoline engine driven, two engines, 90 BHP per engine, twin screw, overall dimensions 27 feet long, 8 feet 2 in wide. Boats are intended for pushing and maneuvering components of floating bridge. In accordance with MIL-B-13994; FSN 1940-27-9726. No security clearance required for APP. USAVCOM.

APPI No. ME-22R1, Revision. Compressor, Rotary, Power Driven. 250 cfm free air delivered at 100 psi discharge pressure. The air compressor shall consist of a diesel engine, a compressing unit, safety equipment, a housing, a receiver, cooling and regulating systems and related piping, gauges, instruments and controls on a single unified steel frame mounted on a 2-wheel, pneumatic tired trailer, with suspension provisions for air delivery. With an adjustable automatic regulating system, industrial type Diesel Engine (MIL-E-11276) with a flexible coupled drive, individual air cleaners for the engine and compressing unit. Trailer chassis, ORD model M-353. The compressing unit shall be rotary of the sliding-vane or axial-screw type, operating at a speed of not more than 1,800 ipr. The housing to enclose the compressing unit, engine and instrument shall be constructed of sheet steel not less than 0.075 in. nominal thickness. Air receiver shall be constructed in accordance with ASME Boiler and Pressure Vessel Code, discharge line equipped with an air service manifold with 3/4 inch individually controlled service outlets. Equipped with two hose reels capable of handling not less than one 50 foot length of air hose, 3/4 inch nominal size. With lifting and tiedown attachments. The compressor shall start and operate continually at ambient temperatures from minus 25 degrees F to plus 120 degrees F and at any elevation between sea level to 5000 feet. The compressors are intended for use as portable sources of compressed air. In accordance with MIL-C-00555D; FSN 4310-984-5741. No security clearance required for APPI. USAVCOM.

APPI No. ME-23R1, Revision. Lubricating and Servicing Unit, Power Operated. The lubricating and servicing unit (lubricator) shall consist essentially of the following components: An enclosure, a 3-compartment lubricant container, air powered pumps, air compressor, air receiver engine, hose, hose reels and accessories. The lubricator components shall be assembled to a welded steel frame work to form a self-contained unit mounted on a two wheel trailer. The lubricator shall supply lubricants and compressed air for the maintenance of equipment under both normal and extreme climatic conditions. The gross weight of the lubricator including accessories and lubricant container 3/4 full, shall not exceed 3,175 pounds. The sheet aluminum for enclosure shall be 0.0040 in. min. nominal thickness. The lubricant container consists of a rectangular tank with 3 compartments not less than 27 gallons, with a heat reservoir surrounding the compartment and a separate bottom heat compartment. Lubricant pumps shall be industrial-type heavy duty, reciprocating, air-powered pump operating at an air pressure of 120 psig, provided with an adapter to permit use of 120 pound drums. One transfer pump, air-powered, reciprocating, not less than 1 to 1 ratio, furnished and fitted for use with 55 gal oil drums, with an extension, adapters, hose and other accessories.

... diesel fuel, engine oil, and ... The air compressor shall be a 2- ... increased type having a free ... discharge pressure of ... with an intercooler, intake filter ... pressure regulator, air receiver, ... driven by a gasoline engine. ... shall be a 4-cylinder, air-cooled ... MIL-E-11275 except when gov- ... with a fuel tank of ... capacity with manual and ... hose reels mounted ... all reels shall be not less ... Two accessory drawers shall be ... beneath the hose reels. ... and repair parts shall be fur- ... the accessory drawers. Lubri- ... with 4 blind rings and 4- ... less than 1/4 inches in A 2-1/2 ... and miscellaneous ... made of 0.071 ... metal fastened to the lubri- ... a bottom channel, trouble ... shall start and ... temperatures from plus ... 18 degrees F. The lubri- ... appropriate lubricants shall ... unimproved roads, ... include thrust stops, ... of displacement ... or not installed ... The lubricator is intended ... and extreme climatic ... of construction equipment. ... of tires. In accordance ... 44-41235. No security ... APPI USAMEC.

APPI No. ME-2491, Revision, Bridge Unit, ... interior bay, ... self-propelled ... an interchangeable ... The unit ... four by four ... in wheel ... diesel engine through ... and accessories as required ... and superstructures so as ... providing actuation power ... for the floating bridge and ... (bridge unit or deck unit) ... from floating bridges ... of low alloy steel. On en- ... (deck section) is ... power and auto- ... Each deck end has ... and male and female ... of bridge sections. In ... MIL-B-52355, and ... 5420-010- ... APPI USAMEC.

APPI No. ME-2591, Revision, Bridge Unit, ... and buoy in- ... self-propelled, wheeled ... or interchangeable carrier ... by four by four chassis. ... in wheel wells. The ... rudder- ... and ... through ... all ... required ... providing actuation power ... for the floating bridge and ... (unit or deck unit) ... from floating ... of low alloy steel. ... (deck section) is ... by hydraulic power and ... Each deck end has ... and male and female ... of bridge sections. This ... section can accommodate ... 2 feet ... in accordance with MIL-B-52355, ... 5420-010- ... APPI USAMEC.

APPI No. ME-2791, Revision, Tank Assembly, ... 10,000 gallon capacity for stor- ... The tank shall consist ... vent ... and ... temperatures ... 40 degrees F. ... the body fabric shall be nylon-66 square ... with a weight (in ounces per sq. yd.)

for double ply fabric of 8.4 to 8.8 for the outside ply and 2.3 to 2.5 for the inside ply. Single ply fabric 13.0 plus or minus 0.2 ounce per sq. yd. Coating compound shall be resistant to hydrocarbon fuels. Tank shall be fabricated and vulcanized as a complete unit in a steam pressure-type autoclave. Tank handles shall be of rubber coated, nylon fabric and withstand a pull of 1,000 pounds for not less than one minute. Tank shall not leak and there shall be no evidence of seepage when the tank contains 10,000 gallons of fuel, no air leakage when under an internal pressure of 1 psi. Vent assembly, pressure relief valve shall open when tank is subjected to an internal pressure of 3 inches of water. Filler elbows assemblies shall withstand a hydrostatic pressure of 15 psi without failure. Tank is made in accordance with DL 13200E6380 and MIL-T-12260. The tank assembly is intended to be used for the storage of hydrocarbon products in connection with lightweight hose line fuel supply systems. The complete Tank Assembly shall conform to Drawing D-13200E6370. Components are listed in the Army Supply Catalog SC5430-93-CL-101; FSN 5430-641-8552. No security clearance is required to obtain APPI. USAMEC.

APPI No. ME-2891, Revision, Ditching Machine, diesel engine driven, ladder type. The ditching machine shall be a self-propelled, diesel engine driven, four-wheel steered supported by four earthmover tires and four wheel or rear wheel wheel driven. Equipped with a rear mounted digging mechanism and a reversing, side discharge belt type spoil conveyor. Shall dig trenches 24 inches wide and from 11 to 6 feet deep at a rate of not less than 20 feet per minute. The digging mechanism shall consist of a bucket line drive, digging boom assembly, spoil conveyor, the attachment and support components between the digging boom and the carrier, and the follow-up scraper. The industrial type diesel engine, including all the components, accessories, and auxiliaries shall conform to MIL-E-11276. The 4x4 drive train shall include components to provide continuous all wheel drive. Equipped with a hydraulic power assist steering system and linkage of the Ackerman type. Compressor shall be water cooled, engine driven, 12 cfm at 120 psi. Two towing tug pad eyes conforming to MS 500004 for use on 15 ton trucks shall be installed on the front bumper. With a 24 volt, waterproof, vehicular electrical system for service and blackout night travel operations, for floodlighting work area or night, for slave starting engines of other vehicles, and for charging batteries and starting the engine. Equipped with lifting and tie-down attachments. Ditcher shall perform at any ambient temperature from plus 120 degrees F to minus 25 degrees F. The ditcher is intended for use in general purpose ditching and digging foxholes and slit trenches. In accordance with MIL-D-52091; FSN 1805-633-5794. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-98, Crane-shovel, crawler mounted, 12-1/2 ton, diesel engine driven. A power excavator, convertible crane-shovel, consisting essentially of crawler mounting, full revolving superstructure and front end attachments. Shall be complete, and ready for operation, capable of being converted for use in crane, clamshell, dragline, pile driving shovel operations, and backhoe operations. The crane-shovel, equipped with crane boom, shovel front, or backhoe attachment, shall be capable of traveling over rough ground or under adverse or severe conditions, 3/4 cu. yd. shovel capacity and 3/4 cu. yd. backhoe capacity. With a crane boom 30 feet long and 82 degree max. angle. The industrial type diesel engine shall conform to MIL-E-11276. Shall be capable of traveling in a forward or backward direction, capable of being steered either to the right or left, capable of ascending or descending a 30 percent grade. Ground clearance not less than 9-1/2 inches. Capable of operating in any ambient temperature from plus 125 degrees F to minus 25 degrees F. Top of revolving superstructure cab shall be equipped with two light housings equipped with floodlights. In accordance with MIL-C-15467; FSN 3810-926-1031. No security clearance required to obtain APPI. USAMEC.

APPI No. WE-39, Aperture, P/N C7791011, a brazed steel small arms gun sight component stamped, formed, milled, brazed, heat treated and phosphate coated. Moderately difficult part to make. No security clearance required to receive APPI. USAWECOM.

APPI No. WE-40, Key, windage, P/N B7791020, a small arms weapon sight part precision cast steel or forging, case or machined to dimensions, heat treated and phosphate coated. Moderately difficult part to make. No security clearance required to receive APPI. USAWECOM.

APPI No. WE-41, Nut, locking, P/N B7791021, a small arms weapon sight part steel, screw machine item, heat treated and phosphate coated. Relatively easy item to produce. No security clearance required to receive APPI. USAWECOM.

APPI No. WE-42, Pin, firing, P/N B7790628, a small arms weapon part, 6150 steel, turned milled, heat treated. Moderately difficult to make. No security clearance required to receive APPI. USAWECOM.

APPI No. WE-43, Retainer, P/N B7790643, a small arms weapon part, alloy steel, turned, drilled, heat treated and phosphate coated. Relatively easy to manufacture. No security clearance required to receive APPI. USAWECOM.

APPI No. WE-44, Screw, P/N B7790647, a small arms weapon, special screw 10-32 NF-2A threads, special filister heat, slotted, 8620 steel heat treated. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-45, Guard assembly, trigger, P/N C7790613, a small arms weapon part, two stamped steel parts riveted together, drilling, counter-sinking and deburring required. Phosphate finish. Relatively easy to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-46, Spring trigger, P/N B7790641, a small arms weapon part. A stamped and formed flat spring, heat treated. Relatively easy to make. No security clearance required for APPI. USAWECOM.

APPI No. WE-47, Screw driver and wrench combination/brush, P/N B7791570, a special tool for small arms weapons, machined, heat treated and assembled with brush. No security clearance required for APPI. USAWECOM.

APPI No. WE-48, Base frame, P/N D77991012, a small arms weapon part, precision alloy steel casting or forging, machined, graduation lines inscribed, heat treated, phosphate coated. Moderately difficult to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-49, Plunger, P/N A7791022, a small arms weapon part, a small high carbon steel solid pin with spherical radius on one end, heat treated and phosphate finish. Relatively easy to produce. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-50, Screw, aperture, P/N B7791024, a small arms weapon part, a special screw, 2-64 thread, with shoulder and button head, medium carbon steel, heat treated phosphate finish. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-51, Screw, windage, P/N C7791026, a small arms weapon part, a special screw, 1-28 thread, large thumb grip head, shoulder under head, turned diameter at point. Heat treated and phosphate finish. Moderately difficult. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-52, Spring, helical, P/N B7791027, a small arms weapon part, .018 music wire free length, .937 coil diameter .090 ends closed, and ground stress relieved, no surface treatment. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-53, Base sight, P/N D7791013, a small arms weapon part made from a precision steel casting or a forging, machined, heat treated and phosphate coated. Moderately difficult to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-54, Sight, front, P/N C7791041, a small arms weapon part, a precision alloy steel bar or precision casting, high machine, heat treated, phosphate coated. Relatively easy to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-55, Frame assembly, P/N C7791015, a small arms weapon part, assembly, steel, stamped, milled, heat treated, and phosphate coated. Moderately difficult assembly to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-56, Arm cocking, P/N C7791353, a small arms weapon part, precision alloy steel casting or forging, heat treated and phosphate coated. Relatively easy to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-57, Bracket, fore end, P/N C7791355, a small arms weapon part, precision steel casting or forging, medium carbon steel, machined, heat treated and phosphate finished. Moderately difficult. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-58, Sight, front, P/N D7791568, a small arms weapon part, precision steel casting or forging, machined, heat treated and phosphate finish. Relatively easy to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-59, Case, P/N F7790630, a small arms accessory case, cotton duck and webbing with eyelets. Typical canvas product stitched and riveted construction. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-60, Thong, P/N B7790631, nylon cord with a served knot on each end. About 24 in. long. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-61, Brush, cleaning, P/N A7790

667, synthetic bristles held in a crimped aluminum ferrule with a short threaded steel wire core. No security clearance required to receive APPI. USA WECOM.

APPI No. WE-62. Spring, helical, P/N B7791028, .047 SIC wire spring, coil diameter .057, free length .247, ends closed and ground, square, stress relief no finish. No security clearance required to obtain APPI. USAWECOM.

APPI No. MI-57. Alignment Test (Transmitter, Shillelagh). This is an alignment telescope which is temporarily mounted on the transmitter to verify the mounting of the transmitter with respect to the target. No Federal Stock Number Assigned. Procurement may be a small quantity set-aside. CONFIDENTIAL clearance required to obtain APPI. USAMUCOM.

APPI No. MI-58. Chaparral Missile Launch and Control Pallet mounted on GFE tracked vehicle with Organizational and Field Maintenance Shop Sets. The pallet is constructed as a self contained unit with a central gunner's turret with 4 launch rails, 2 on each side. The Launcher and Control Pallet is capable of being removed from the vehicle and temporarily mounted on other vehicles or on the ground. No Federal Stock Number Assigned. Confidential clearance required to obtain APPI. USAMUCOM.

APPI No. EL-76. MESSAGE CENTER AN/GSQ-80. Provides complete facilities for receipt, sorting and distribution of mail as well as providing other message center functions. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-77. REPEATER SET RADIO AN/TRC-110. Provides a 12 or 24 channel radio repeater for use between Corps and Army within the Army Area Communication System. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-78. TRANSMITTING SET, RADAR DATA. AN/ART-18. Compresses the target video and encodes data obtained from the Radar Surveillance Sets AN/APS-94 or AN/APS-94A, into suitable form for modulation of an FM transmitter which transmits data over a UHF link to the ground station Receiving Set, Radar Data AN/TKQ-2 for further processing. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-79. RECEIVING SET, RADAR DATA AN/TKQ-2. Receives encoded radio signals from the Transmitting Set, Radar Data AN/ART-18, separates video data from synchronizing and navigation data and presents the video signals on CRT's. Includes facilities for progressively processing and viewing photographic film. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-80. SURVEILLANCE INFORMATION CENTER INFRARED. Receives information from the Detecting Set, Infrared AN/AAS-14 processes it and presents the information to the operator visually on the Indicator, Terrain Display IP-595/U and at the same time is recorded on photographic film for later developing and interpretation. No security clearance required to obtain APPI. USAECOM.

APPI No. AV-95R-1. Indicator, attitude stabilization, with fluorescent lamp. 3-pin base.

APPI No. AV-96R-1. Indicator, turn and slip. Integral stabilization, pointer, 1. Used to show pitch of Aft, fluorescent finish, w/o instrument lamp, 28V DC, Electrical connection, 1, 3-pin contacts, AN3102C-10S1-3P, O/A dim., 5.5 in. deep, 3.5 in. H, panel mid., MIL-I-7805, Type MD-8, FSN 6610-580-7922. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-97. Cancellation of APPI. Previously published as AV-97 in June 7 1966 issue of Commerce Business Daily, this APPI is hereby cancelled on request of the requiring activity of this command, AV-97, altimeter, pressure, is replaced by AV-101, this issue. USAAVCOM.

APPI No. AV-101. Altimeter, pressure, Type AA U-8/A. In accordance with MIL-A-27229A (USAF) w/amendments, FSN 6610-722-0967. Appl., multiple aircraft. This is a QPL item. Interested concerns should contact Wright-Patterson AFB, to have their product tested and approved. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-102. Indicator, temperature, electrical resistance. Dial, 1 scale, temp., scale, minus 50 deg., to plus 50 deg., C scale range, 5 deg., graduated increments, finish of graduations, fluorescent letters, numerals and lined increments. Dia. of dial per MIL-I-8075, pointer, clock hand type, fluorescent illuminated, encased, w/o instrument lamp socket, electrical, 24 V DC, 1 electrical connection, 4 pin contacts, and 1006D1452P, O/A dim., per MIL std MS28008, panel mtg., type, Dia. of body per MS28008, MIL-I-8075, MS28008, MSS 6685-11, FSN 6685-557-0372. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-103. Shipping and storage container, transmission. Steel, enameled finish, cylindrical, designed for mtg., the item to be accommodated W/its longitudinal axis perpendicular to the base, O/A dim., 3 ft 9 1/2 in. dia., 4 ft 9 in. H, P/N 204-030MUSC1 transmission to be accommodated. FSN 8115-701-9867. This procurement will be a 100% small business set-aside. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-104. Trailer, aircraft engine. Frame, aluminum, riveted, wheel, 4.21 in. dia., pneumatic tires, O/A dim., 97 in. l., 56 in. wide, 41 1/2 in. H, w/drawbar, pole, designed for J33, 35, 47, 48, 65 T34, 40 and 56 engines. FSN 1740-516-7929. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-105. Pump, submerged aircraft. For use on CH-47 rotary wing aircraft. FSN 2915-780-4413. Lear Siegler P/N RG12200A and verlot P/N 114P4111-2 and 11404111-2. No clearance required to obtain APPI. USAAVCOM.

NOTE: The APPI bearing the following numbers APPI No. AP-3, APPI No. AP-5, APPI No. AP-8, APPI No. AP-10, APPI No. AP-11, and APPI No. AP-15 are revisions (reprints) and were previously published as APPI synopses. Additional suppliers are welcomed for these APPI items.

APPI No. AP-3-Revision 1, (APPI No. AP3) Ammunition item metal fabrication, Projectile IIE 175mm M437 mpts assembly. Approximately 34 inches long, 10 components, 6.88 inch outside diameter, parabolic shape with tapered base section. Steel ASTM A273-58T sections 1-14 inclusive for hot forge and heat treat method. Production requires highly technical staff engineers, metallurgists, chemists, and tool designers. Considered very difficult to produce to applicable specifications. APSA-USAMUCOM. Secret clearance required.

APPI No. AP-5-Revision 1, (APPI No. AP5) Ammunition Item Metal Fabrication. Case Cartridge 105mm XM 150B1 one piece design 24.31 inches long by 5.133 inches outside diameter at base tapered to 4.115 inches at mouth threaded and counter-bored primer hole in base. Fabricated from a spherulized 1030 steel disc. Case is fully heat-treated zinc plated and chromate treated. No clearance required. USA Munitions Command-APSA.

APPI No. AP-11-Revision 1, (APPI No. AP-11) Loaded item - Simulator Artillery Gunflash, M110 (STD A) with squib, electric, M72 Procured loaded, wt. 69 lbs per box of 24. Container, outer, hollow black plastic cylinder, 7.81" long X 1.88" O.D. 1/2" threaded hole in top, bottom and attached to shoulder on inner container. Filling plug red plastic slotted and threaded. Container inner, hollow black plastic cylinder, 6-7/8" X 1-1/4" O.D. with external flange at base forming seat for outer container and internal thread. Pyrotechnic charge in inner container consists 80 grams composition containing magnesium powder and oxidize. Adapter holder is black plastic with well for electric squib. Requires technical staff and facilities for loading and handling of pyrotechnics. Somewhat difficult to manufacture to applicable specs. No clearance required to receive APPI. APSA USAMUCOM.

APPI No. AP-8-Revision 1, (APPI No. AP-8) Metal Fabrication Warhead Section, GM, Training Missile, XM209 approx. 6" in dia., 20.46" long. Major components: Olive, inert, approx. 6" dia. 4-3/4" high, .050" wall, aluminum alloy sheet 6061-0, heat-treat after forming; shroud, inert, approx. 6" dia., external key 16-1/4" long, varying wall thickness, embossed, material aluminum alloy 2014, T6 extruded; ballast, solid cylinder and cone shape, approx. 5.7" dia., 6-5/8" long, material, aluminum alloy, assembly with clinch nuts, machine screws and tapping screws. Total assembly weight must be within spec limits. Competent staff technical engineers and metallurgists required. Difficult to produce to applicable specs. No clearance required to receive APPI. APSA-USAMUCOM.

APPI No. AP-10-Revision 1, (APPI No. AP-10) Metal Fabrication - Case, Cartridge, 40MM, M118, MPTS, 1.817" long X 1.624" O.D.; varying wall thickness .062" to .030". Case "cup shape" with internal protrusion .845" dia. X .557" high in base section with six (6) .060" holes around protrusion; rim 1.719" dia. X .088" wide machines on base. Material, aluminum alloy, bar, 2024, T6; cup powder charge .406" dia. X .365" high X .0055" wall thickness with flared mouth, material, brass strip, annealed. Finished case must withstand hydrostatic test of 48,000 PSI min. 240 hr. salt spray test, hardness and pull test. Requires competent engineering staff, metallurgists and chemists. Very difficult to manufacture to applicable specs. No clearance required to receive APPI. APSA-USAMUCOM.

APPI No. AP-15-Revision 1, (APPI No. AP-15) Ammunition Item - Metal fabrication projectile TP-7 90MM M353 MPTS (4.2" max. long X 3.537" OD, Body is one piece design 10.15" X 3.537" OD, threaded nose rotating band and crimping grooves material, steel, HR carbon bars, excluding base metal; rotating band 3.53" OD X 1.255" wide X .21" thick; material, mild steel, class B annealed; windshield cone shape varying wall thickness aluminum

alloy die casting comp A380 body and windshield assembled with thread sealing compound, cleaned and painted; pins of aluminum alloy anneal finish; disc, phlophond 20 sealed into plug with adhesive. Subjected to rigid inspection. Manufacturing firms bidding this item will require highly competent staff of engineers, metallurgists, chemists and tool and die engineers. Very difficult to manufacture to Government specs, in large quantity. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-67-Revision 1, Ammunition Item - Cartridge HE M374, Npts for 81MM Mortar Body Assembly, 10.403 inches maximum length by 3.184 inches outside diameter consists of (4) component parts, body 9.50 inches long by 3.182 inches diameter near center tapered to 2.38 inches diameter at front end and 1.835 inches at rear end with varying thickness from .185 inches to .25 inches, nose thread 2.00-12NS-1B, end bore to 1.62 inches for brazed in adapter, material pearlitic malleable iron grad 50007, Specification MIL-C-46971 physical properties yield strength 50,000 PSI minimum, .1 percent offset elongation .7 percent minimum adapter, base, 1.26 inches long by 1.800 inches maximum diameter, one end threaded 1-1/8-18NEF-2A, material, carbon steel, special bar quality, ASTM Specification A107, or A108 applies, alternate material, pearlitic malleable iron, Grade 50007, Specification MIL-C-46971, physical properties, yield strength 40,000 PSI minimum, .1 percent offset 10 percent minimum elongation, mechanical property requirements of MIL-C-46971 apply for alternate material, cover, base, 1.02 inch diameter by .0209 inch thick, material, cold rolled carbon steel strip, temper number 4, ASTM Specification A109 applies. Adapter, base is brazed 360 degrees to withstand 5000 PSI hydrostatic test and 150 pound PSI air test. BOD requires 100 percent ultrasonic inspection and magnaflux.

Band, obturating, 3.500 inch diameter by .187 inches thick, material, pipe, plastic, Specification PA-PD-2521, body assembly prior to assembly of band, obturating requires phosphate coat and paint. Manufacturing firms bidding this item will require a highly competent staff of Engineers, Metallurgists, Chemists and Tool Design Engineers to design, fabricate and maintain precision tools required for mass production of this item. This item is considered very difficult to produce to applicable specifications. No clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-68-Revision 1, Ammunition Item - Projectile, body and band assembly, WP, M375, 81 MM consisting of two components. Body, 10 inches long, varying in outside diameters from 2.595 inches at nose to 3.115 inches on bourrelet to 1.705 inches at the base, varying wall thickness .235 inches on bourrelet, .20 inches at mid-section, .185 inches at ASE section, machined internally in nose section to accept press fit burster casing, threaded externally at base to accept fin assembly, outside diameter of body grooved 360 degrees to accept obturating band, material, steel, non-resulphurized, carbon bar, hot-rolled, special quality, ASTM Specification A107, alternate material, steel, non-resulphurized, Specification MIL-S-11310, yield strength 60,000 PSI, 1 percent offset, 12 percent elongation.

An obturating band, 3.500 inch outside diameter by .187 inches thick, inside diameter 2.895 inches, six 60 degree by .037 inches deep grooves equally spaced inside of band, material, pipe, plastic, Specification PA-PD-2521. Firms bidding this item must have qualified Metallurgists, Chemists and Tool Designers to fabricate this item in accordance with applicable specifications. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. FA-36, Ctg. Cal. .22 Ball, long rifle; lead bullet, commercial design, contains non corrosive and nonmercuric primer composition, ctg. case is rimfire type; FSN1305-(A086); no clearance required. FA-USAMUCOM.

APPI No. FA-37, Ctg. Cal. .45 Ball M1911 service grade; consists of gliding metal-clad steel or copper-plated steel jacket and a slug of lead antimony; FSN 1305-(A475); no clearance required. FA USA-MUCOM.

APPI No. EA-8-R1, Cryptographic equipment destroyer, incendiary, TH4, M1A2, FSN 1375-834-8884, is a flat steel container 21" x 15" x 1-1/4", filled with approx 30 lbs of thermate (TH4), ignited either electrically or manually by means of an ignitor system consisting of two M209 electric fuses and one M210 incendiary fuse for manual operation. The fusing system is located in the top cover of the container which is separately assembled and slip fitted over the body and taped into place. Item is used for the emergency destruction of cryptographic equipment. No security clearance is required to receive this APPI. EA-USAMUCOM.

APPI No. ME-93, Cancellation of APPI. Refrigration Unit, published previously as APPI No ME-93, Refrigeration Unit, Mechanical, synopsis in 7 June 1966 issue of Commerce Business Daily is hereby cancelled by USAMEC.

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated August 2, 1966, page 2, No. PSA-117, except that the potential suppliers' source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. M199. The canister for Redeye Launcher, Lot 10, being inspected, is constructed of two .0027 inch thick 14 aluminum shells, top and bottom, which are joined with 10 aluminum fasteners. The shells have internal supports which provide rigidity and resistance. Redeye Launcher and its base are supported by a base of 14 aluminum fasteners and non-rigid internal supports. The canister is Spec MIL-STD-1916 Type I container. The container possesses a minimum strength and must be watertight when subjected to environmental test MIL-STD-883C Method 1019, Category 2, of -65°F for 168 hours. The dimensions of the container are 14.5 inches in diameter X 12.5" high. While this container is not a final design proposal for the vehicle weight and shape of the container will be subject to production. No Federal Acquisition Assessed Procurement may be a source of new design. Confidential clearance is required for APPI USANCOM.

APPI No. 41-68 Radar Beacon, X-Band, as de-
scribed in Manual Technical Specifications (MITS) is
not to be used for any other purpose.
The MITS for the APPI 41-68 is
located in the following location:
1. 1966 Manual
2. 1966 Manual

1. The item is a cylinder having a diameter of 1 1/2 inches and a depth of 11 inches. Weight: 4.5 lbs. Contains external cables and associated plug. No Federal Stock Number Assigned. No drawings required to obtain APPI USAMICOM.

APPI has a **MIL Contract Definition Phase** for the **Naval Facilities**. **AN/MPQ-42**. This is that phase during which preliminary design and engineering work will be performed and the accomplished, and performance objectives planning will be performed by the **Naval Facilities**. **AN/MPQ-42**. The **AN/MPQ-42** is a complete Air Defense command and control system that will be moved to the **Naval Facilities** for defense where it will be used to protect equipment for conducting operations and training to maintain the highest level of readiness. **AN/MPQ-42** has Federal Stock Number **15-48-000-0000** and is required to obtain APPI.

APEL No. MI-62 United Receiver/Decoder, as described by Air Force Specification DES-10138, dated 11 April 1966. This item is used to precede all other signals and information and provides warning they receiver controls target auto pilot system for Federal Stock Number Assigned No. [redacted] intended to obtain APEL USAMICOM.

APPI No. A1-96R2, Indicator, Turn and Slip, Internal Strobilization, Printer, U.S. Used to show pitch of and
244 the electrical finish with instrument lamp.
APPI No. 1-31 IP, 5/16 in. dia 5 1/2 in. deep, 35 in.
2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824,

AFFI No A3-106. Indicator, Vertical Velocity.
 Rate turn left and descent, 0 to 3,000 ft per
 minute; turn right 10 per min graduated increments;
 climb/descent 100 ft/min increments; 1 point,
 stationary lamp color, continuous finish; w/o in-
 frared sensor capability, dia dim 3-1/2 in. inter-
 med w/ used to beel mod, MII-1-58067(MO). FSN
 690303
AFFI YSAAEOM clearance required to obtain

APPI No. AV-187. Grip Assembly Controller.
Adjustable grip, painted type; finger matched type;
flexible mid end, 1.155 in. min., 1.157 in. max. dia.;
flexible tip, 0.96 in. dia. body: diam. 2.313 in. lg. grip:
flexible tip, 0.96 in. dia. body: diam. 2.313 in. lg. grip:
flexible tip, 0.96 in. dia. body: diam. 2.313 in. lg. grip:
flexible tip, 0.96 in. dia. body: diam. 2.313 in. lg. grip:

APPI No. 33-106, Ladder, Aircraft Boarding,
equipped with molded rubber contour pads,
15 1/4 in. hr. rung or step
17 1/2 in. lg. stainless steel head, equipped

with attachment hooks, designed for Model U-1A Acft. FSN 1730-963-6851. This procurement will be a 100% small business set aside. No clearance required to obtain APPI. USAAYCOM.

APPI No. AV-169. Control, Remote, Fire Extinguisher. For use on army aircraft. Ordnance Drawing No. 7968270. FSN 1680-182-3897. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-110. Shipping and Storage Container. For actuator blades, appx. 25 ft in length. Anticipate that complete set of drawings will be available for competitive procurement. FSN 8115-949-0176. No clearance required to obtain APPI. USAAYCOM.

APPI No. AT-77. Engine, Diesel, Turbo-Charged. The Ord 5703272 engine is an 8 cylinder, V Type, Turbo-charged, compression ignition power pack for a tracked vehicle. This engine assembly has the following basic characteristics: (a) 2 cycle (b) displacement—568 cu in (c) bore—4.25 in (d) stroke—5 in (e) max GHP 275,200 RPM (f) max NHP 325/2340 RPM (g) max gross torque—950 ft/lb/1700 RPM (h) max net torque—875 ft/lb/1600 RPM (i) Main cooling system: liquid (j) oil cooling system: liquid (k) oil capacity—26 qts. SNI A/P G309(A) Model—8V71T FSN 2815-987-8669. No clearance required to obtain APPI. USATAC.

APPI No. AT-78. Engine, multi-fuel with container. The Ord 5702688 engine is a 6 cylinder multi-fuel engine with fuel density compensator, compression ignition power pack for a wheeled vehicle. This engine assembly has the following basic characteristics: (a) 4 cycle (b) displacement—478 cu in (c) bore—4.56 in (d) stroke—4.87 in (e) max GHP 140/2600 RPM (f) min gross torque—330 ft lbf/1400 RPM (g) main cooling system: liquid (h) oil coating system: liquid (i) oil capacity—22 qts. SNL APPI G742 model—LD 465. FSN 2815-010-5169. No clearance required to obtain APPI. USA-TAC.

APPI No. AT-79. Engine, multi-fuel with container. The Ord 5702683 engine is a six cylinder multi-fuel engine with fuel density compensator, turbo-charged compression ignition power pack for wheeled vehicle. This engine assembly has the following basic characteristics: (a) 4 cycle (b) displacement—478 cu in (c) bore—4.56 in (d) 549 3—4.87 in (e) max GHP 210/2800 RPM (f) min gross torque—330 FT/LBS/1400 RPM (g) main cooling system: liquid (h) oil cooling—liquid (i) oil capacity—22 qrs SNL APG G744 Model LDS 465-1A FSN 2815-91-3645 (2815-075-0087). No clearance required to obtain APPI. USATAC.

APPI No. AT-89. Pump, Centrifugal, water or gasoline, w/o strainer assembly. The Ord 1094742 pump is a side delivery, vane type power take off driven unit used to transfer gasoline or water from the 2-1/2 ton series tank trucks. This pump assembly consists of following components: (a) cylinder (b) liner (c) 49594 2/shaft (d) vanes (e) springs (f) heads (g) covers (h) flanges (i) valves (j) seal (k) antifriction bearings (l) shaft sleeves (m) plus (n) common hardware SNL APP G742 (tank truck). FSN 2590.912-3879. No clearance required to obtain APPI. USATAC.

APPI No. AT-81. Shaft Assembly, propeller, front axle. The Ord 7351101 shaft assembly is a component of vehicle power train and is used to transmit power from the power take-off to front axle. This shaft assembly consists of following component: (a) steel tube (b) spline shafts (c) universal joints (d) mounting flanges (e) oil seals (f) lubrication fittings (g) common hardware SNL APP G741. FSN 2520-735-1101. No clearance required to obtain APPI, USATAC.

APPI No. AT-82, Armature, Generator Assembly,
14 Volt. This Ord 10950809 armature is the rotating
 component of the generator assembly and a major
 item. This armature assembly consists of the following
 components: (a) laminated iron core (b) copper
 coil windings (c) copper commutator (d) insulation
 on steel shaft. SNL APP G742, G293, G749, G792,
 5838 (autolite and prestolite generators). FSN 2920-
 03-1137. No clearance required to obtain APPI.
 USATAC.

APPI No. AT-83. Tire pneumatic, 11:00 X 20,
2 Ply NDCC, Nylon Truck and Bus. The ORD
2510 NDCC tire is a major component on
the traction system for a wheeled vehicle. This
tire assembly has the following basic characteristics:
(a) ply rating—12 (b) type classification—TRC and
(c) Tread type—NDCC (d) cord material—nylon
(e) max rated load—5150 lbs. (f) inflation pressure—
PSI (g) APP width 12.6 in (h) APP dia—44.5
in (i) specification MIL-T-46729A SNL APP—Multiple,
SNL 2610-262-8653. No clearance required to obtain
APPI. USATAC.

APPI No. AT-84. Tire pneumatic, 7:00 X 16. Ply NDCC, nylon, lt truck. The ORD 7342996 pneumatic tire is a major component of the traction system for a wheeled vehicle. This tire assembly is the following basic characteristics: (a) ply rating (b) type classification—lt truck (c) tread type—

NDCC (d) cord material—nylon (e) max rated load—1200 lbs (f) inflation pressure—50 PSI (g) APP width—7.9 in (h) APP dia—31.5 in Specification MIL-T-46729A. SNL APP—Multiple. FSN 2610-678-1363. No clearance required to obtain APP.—USA-TAC.

APPI No. WE-63. Mechanism Assembly, Elevating, P/N 55(62). A machine gun tripod sub-assembly can be made consisting of machined steel forgings, nuts and washers, rollers, two lead screws for positioning the gun, lead bracket, phosphatized surface, and mounting bracket. Drawings are required. No clearance required to obtain APPI.—USAWF:COM.

APPI No. WE-64. Plate assembly, Back, P/N 779361. A small machine gun component consisting of a welded assembly. Parts include a carbon steel stamping and alloy steel forging or precision casting. Heat treatment and phosphate surface finished are required. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-65. Breech Lock Assembly, P/N 11013422. An assembly for a machine gun. The main component is a breech lock machined from alloy steel and heat treated. The assembly is in the proof fired followed by magnetic particle inspection. No clearance required to obtain APPI. USAWECOM.

APII No. WE-66. Feed slide assembly for incline ginn, PN 7793579. The main parts are alloy steel forgings, requiring heat treatment and phosphate surface coating. No clearance required to obtain APII. **USAWECOM.**

APPI No. WE-67. Feed slide track assembly for machine gun, P/N 7793610. The main parts are alloy steel forgings, requiring heat treatment and phosphate surface coating. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-68, Barrel jacket for machine gun, P/N 11013400. This consists primarily of two machined alloy steel forgings brazed into an alloy steel tube which has been formed and pierced. No clearance required to obtain APPI. USAWECOM.

APP No. WE-69. Barrel assembly for machine gun, P/N 7791874. The barrel is machined from an alloy steel forging with a chrome-plated bore, and is fitted with a chrome-cobalt liner. Selective assembly with shrink fits is required. Phosphate surface coating, proof firing, and magnetic particle inspection are also specified. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-70. Extension assembly, barrel for machine gun, P/N 779.897. The largest part in this assembly is the extension which requires substantial machining from an alloy steel forging and requires heat treatment, the extension is fitted with a hammer, sear, springs and other parts to make the assembly, proof firing and magnetic particle inspection is required. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-71. Bearing, barrel, front machine gun, P/N 11013349. The two parts of the bearing are machined from medium carbon alloy steel bar stock; and copper brazed in assembly. Heat treating and chromium plating is required. No clearance required to obtain APPI. **USAWECOM,**

APPI No. WE-72. Barrel, grenade launcher, P/N 11686529. The barrel is to be machined from alloy steel forgings, rolling of the barrel is required as is heat treatment, chromium plating and phosphate surface finish. Proof firing and magnetic particle inspection are part of the specifications. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-73. Bolt, branch for machine gun, P/N 7791384. The major components of this assembly are machined from alloy steel forgings requiring heat treatment and chromium plating. Proof firing and magnetic particle inspection of the branch bolt is required. No clearance required to obtain APPI, USAWECOM.

APPI No. WE-74. Hand, blower for rifles, P/N 546000. This component can be made from carbon steel parts, brazed and welded at assembly or optionally from precision steel castings. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-75. Charger, bolt, cal. 50 machine
M10, P/N 7267989. This assembly is composed
of a variety of parts made from formed, carbon
steel forgings, aluminum steel stampings, alloy steel
forgings, aluminum alloy die castings, alloy steel
and etc. Some welding of sub-assemblies is required,
as is heat treating and phosphate surface finishing
on some parts; over fifty parts are in this assembly.
No clearance required to obtain APPI, USA-
ECONOM.

APPI No. WE-76. Extension sub-assembly, barrel, machine gun, P/N7791371. The main component of this sub-assembly is the extension machined from alloy steel forging. This part is to be heat treated, chromium plated, phosphate surface finish, proof fired and magnetic particle inspected. No appearance required to obtain APPI. USAWECOM.

APPI No. WE-77. Cylinder assembly, acitalling,
armament sub-system, P/N 7791968. This is a

CANCELLED

No. WE-79. Hider, flash, Cal machine gun, P/N 7162303. This is from carbon steel or from pearlite casting. Chromium plating polishing is required. No clearance re-

No. WE-80. Roll assembly, open N 7790722. This assembly consists of a frame made from carbon steel pipe, and bent, and of a handle mechanism, heat-treated and chrome-plated.

No. WE-81. Barrell with flash
chisel gun, P/N 11686344, the ba

CANCELLED

No. ME-31 RI REVISION: Generator set, gasoline engine, direct current, air cooled portable, skid mounted, self-excited, modular. The engine will be a four-cycle

3. Manually started by rope. Overall length 25 inches long, 25 inches wide and net dry weight 280 pounds. Operating speed for the set shall be 3,600 rpm.

The refrigeration system shall be a cycle type employing direct expansion, conforming to specifications ASHRAE 15-1975. The system shall be furnished with full charge in accordance with manufacturer's instructions. The system shall be recharged by a qualified technician with refrigerant of the same type and purity as the original charge.

motor power
s: 40 cps, 1 phase; compressor 8.4
ts, 40 cps, 1 phase; one used for
2 HP, 208/416 volts, 400 cps.
for evaporator fan, 0.89 HP, AC
cps, 3 phase. Nominal cooling

BTU per hour with an airflow of capacity. Nominal heating capacity per hour with airflow of 1300 CFM. The unit is intended for use in providing heated air to maintain adequate work conditions in vans, trucks, trailers or shops.

ners may be installed indoors or outdoors, depending on the weather. In accordance with the instructions on the label, use the following information: FSN 4120-791-9459. No clearance required. APPI. USAMEC.

CANCELLED

n consisting of a torque convert
sion, two individually controlled, po
power operated steering devices; ge
ve units and connecting components
nished. Steering devices shall trans
wer of the engine to either track.

provided which lock both tracks
either track individually to permit
drive units shall be enclosed in
usings. A splined shaft to operate a
each and to operate a rear mounted
ble control unit shall be provided.

... be the full torque, power shift
... with a torque converter, s
... less than two forward and two
... os. A push start pump shall be fu
... ctor is not equipped with an auxil
... rting engine. Tractor shall be equip
... with a cranking starting engine. Tra

APPI No. ME-48RI REVISION. Drill Pneumatic, Drifter, Self-Propelled, Crawler Mounted. Shall consist essentially of a crawler chassis with a pintle attachment for towing an air compressor, air motors, hydraulically operated turret boom, chain feed type drill retainer channel, and pneumatic drill. Shall be provided with lubrication fittings, hoses, couplings, crawler brakes or locks, and other necessary items to perform complete and efficient drifter drill operations. The drifter drill employing a carbide tipped bottom drive bit shall drill a 2-1/2 inch diameter hole, 22 inches deep in one minute. Each of the two oscillating crawler tracks shall be driven (forward and reverse) by an air motor with a spring loaded deadman control. Each track shall be provided with brakes or hold devices that will lock tracks in a fixed position immediately upon release of the spring loaded deadman control. The feed channel support boom shall be raised, lowered and rotate hydraulically. Vertical movements of boom shall be not less than 40 degrees above the horizontal and 15 degrees below the horizontal. Rotation of boom shall be not less than 90 degrees to the right and 90 degrees to the left and shall provide for vertical drilling at any position in the 180 degree path, outside of the tracks without repositioning the crawler. The hydraulic control of the boom and feed channel shall be such that the drifter drill shall tilt vertical or horizontal holes in any of the above ranges regardless of the position of the tracks. The fabricated steel feed channel shall be flexibly secured to the feed channel support boom and shall retain tiller sprockets near its extremities to carry the feed chain and allow a total feed travel of the drifter drill of not less than 11 feet 6 inches. An air motor, attached to the feed channel and operating at 90 psi, shall be provided to operate the chain feed which crawls and retracts the drifter drill at a maximum effort of not less than 1000 pounds. The 4-1/2 inch pneumatic drifter drill shall be of the long stroke hammer type, weighing not less than 160 pounds, designed for wet or dry drilling and to allow air to pass through the unit and the attached drill rod for blowing purposes; shall operate on a rated air pressure of 90 psi and shall be automatically valved to provide not less than 1,500 blows per minute to the chucked drill shank. Fifteen drill shanks shall be furnished with each drifter drill for use with drill rods and carbide insert bottom drive rock bits. A pintle assembly conforming to Standard MS51335 shall be provided to receive the tongue of a 600 cubic foot per minute trailer mounted air compressor. The hydraulic system shall include a pump, hydraulic rams with lock check valves, reservoir, pressure relief valve and all necessary controls. The pump shall be driven by an air motor and shall have sufficient capacity to energize all hydraulically powered components. When specified, the equipment shall be provided with lifting attachments and tie-down devices. This self-propelled crawler mounted drifter drill, when completely equipped for drilling, shall be utilized for horizontal and vertical drilling to define crevice lines, to drill blast holes and to accomplish other miscellaneous drilling jobs. In accordance with MIL-D-2120B, Size B, FSN 3820-585-2225, No security clearance required to obtain APPI, USAMEC.

APPI No. MK-52RI REVISION. Compressor, Reciprocating, Power Driven, Air, 15 cfm, 175 psi. Shall be of the commercial classification "garage type," air cooled, 2 stage, 2 cylinder, tank mounted reciprocating compressor with an air reservoir, automatic unloader, air cleaner, air hose and power unit. Compressor shall be driven by an air cooled, 4 cycle gasoline engine. Engine, fuel tank, manual cranking system and provisions for connection to an auxiliary fuel supply shall conform to MIL-E-11275. Unless otherwise specified a government furnished Military Design 6 hp engine, Model 4A032, FSN 2805-776-0483 shall be provided. Engine shall be installed in accordance with MIL-STD-1300. The drive shall consist of matched multiple V-belts and grooved pulleys. Two mufflers for the engine shall be provided by the supplier. Engine shall be equipped with a clutch. Compressor and power unit shall be mounted on a base attached to the air receiver tank. The base for mounting the cover unit shall have a means for height adjustment. Air receiver tank shall be of the horizontal type and constructed in accordance with the ASME Boiler and Pressure Vessel Code, tank capacity not less than 80 gallons. Fillings on tank shall include a spring loaded type pressure relief valve, a globe discharge valve, a drain cock of the needle seat packless type, and a 0-psig to not less than 250 psig pressure gage having psi or smaller increments. Compressor shall have an adjustable, pressure actuated, mechanical control to automatically stop compression of air and reduce engine speed to an rpm between 1,000 rpm and 1600 rpm when 185 psig is reached. When the tank pressure has dropped to 160 psig plus or minus 10 psig, the control shall automatically accelerate the engine and start compression. An automatic device shall be provided to prevent engine from starting against either tank pressure or compression in the compressor cylinders. Compressors

are intended for use as a source of compressed air in the normal operations conducted at filling stations and vehicle maintenance shops. In accordance with MIL-C-13874, Type 1, Class 1, style 2, FSN 4310-542-4566, No security clearance required to obtain APPI, USAMEC.

APPI No. ME-53RI REVISION. Generator Set, Diesel Engine Driven, 100 KW, Alternating Current, Liquid Cooled, Portable, Skid Mounted, Multipurpose. The generator set shall consist of a liquid cooled diesel engine directly connected by a flexible coupling to a 100 kw, 0.8 pf generator. An excitation system, voltage regulator, fuel tank, engine starting motor, controls, batteries, battery charging generator and controls, governor, winterization equipment, a weather resistant housing, a rigid skid base and other equipment as required to achieve a complete engine-generator set. Set shall be 100 kw, 0.8 pf lagging, at 60 cps, and 83.3 kw, 0.8 pf lagging, at 50 cps, 3 phase 4 wire, 240 volts line to neutral and 416 volts line to line, (240/416 volts) wye. Set shall be reconnectable for 3 phase, 4 wire, 120 volts line to neutral and 208 volts line to line (120/208 volts) wye. Operating speed 1,800 rpm for 60 cycle operation and 1500 rpm for 50 cycle operation. An industrial type diesel engine conforming to MIL-E-11276 shall be provided with a fuel system including piping, valves, filters, fuel tank, day tank, two electric fuel transfer pumps, preheat pump, a muffler, exhaust pipe, tailpipe, fittings, and other required equipment. Engine shall include both manual turning for inspection and maintenance and a 24 volt electric cranking system for starting. Set shall be equipped with an electric load sensing governing system with the necessary equipment for speed error sensing, and with an adjustable frequency regulation (droop) control on the control panel. Generator shall be a single bearing, rotating field, self ventilated synchronous type. A voltage reconnection system shall be provided for reconnecting the phase winding to give all the specified terminal voltages. Excitation system shall consist of an exciter and voltage regulator of the static type. The control panel shall consist of a generator control cabinet and an engine and winterization control panel. Set shall start and operate at ambient temperatures from a minus 65 degrees F to plus 125 degrees F, with 3 inches of rain impinging on the set at angles from vertical to 15 degrees from the vertical, with the base of the set in planes from level to 15 degrees from level, and at 8,000 feet above sea level at an ambient temperature of 95 degrees F. The generator, excitation system, governing system, generator, control cabinet and tool box shall be dripproof. Housing shall be constructed of steel or aluminum alloy, fully enclose the sides, top and ends of the set, exclude wind driven rain, snow, and sand from the interior, be of bolted construction, have drip channels, be removable, be reinforced, provide a fully protected compartment for storage of manuals, etc. Skid base shall be constructed of steel or of aluminum alloy and shall have towing holes and two retractable towing eyes. Winterization system, when required, shall consist of a fuel supply system, diesel fuel fired coolant heater, coolant circulating pump, distribution system and all necessary controls shall be provided. Set shall withstand, without damage, rough handling normally encountered during rail, truck or trailer transportation. The dry maximum weight of the set shall be not more than 7000 pounds. Overall dimensions 116 inch max length, 40 inch max width, and 65 inch max height. Each set shall be provided with one lifting attachment located at the top of the set. Sets are intended to supply power for general and special purpose use. In accordance with MIL-G-52461, FSN 6115-752-1588, No security clearance required to obtain APPI, USAMEC.

APPI No. ME-55RI REVISION. Generator Set, Gasoline Engine Driven, 3 KW, Alternating Current, Air Cooled, Portable, Tubular Frame, Skid-Shock Mounted. Set is rated 3 KW, 0.8 pf lagging, and shall be connectable for the following voltage ratings: 3 phase, 4 wire, 120 volt line to neutral and 208 volt line to line (108/208); 3 phase, 3 wire, 120 volt line to line; Single phase, 2 wire 120 volts; Single phase, 2 wire, 240 volts, Self-excited. The military design engine, model 4A032, FSN 2805-776-0483, conforming to MIL-E-11275, will be furnished by the government. Manually cranked by rope. Set shall start and operate at ambient temperatures from minus 65 degrees F to plus 125 degrees F. Operating speed for set shall be 3,428 rpm. Set shall not be damaged when subjected to rough handling. The net dry weight of set shall be 285 pounds. The overall dimensions shall be 35 inch long, 24 inch wide and 25 inch high. Set is intended to supply power for general purpose use. In accordance with MIL-G-52367, Type 11, ann DL 13213E4098, FSN 6115-017-8238, No security clearance required to obtain APPI, USAMEC.

APPI No. ME-57RI REVISION. Outboard Motor, Gasoline, with carrying case. Each outboard motor shall consist of a gasoline engine, mounting bracket, forward and reverse reduction gears, propeller and

separate fuel tank. The net brake horsepower of the engine, complete with all accessories, shall not be less than 25 or more than 40 continuous horsepower at the manufacturers max. rated speed. The engine speed control shall be located in the twist-grip, on the steering handle, allowing full engine speed for both forward and reverse operation. The carburetor shall be of the Venturi type with fixed or adjustable low speed and high speed jets. Six to seven gallon capacity of fuel tank, with a fuel gauge and either a manual discharge pump or a squeeze bulb. A high-tension magneto ignition system. Engine cranking shall be accomplished by an automatic rewind starter rope. An efficient underwater exhaust system shall be provided. Gear shift lever shall be located on steering handle. Steering shall be through an integral tiller type handle that shall change direction of the propeller thrust through a total arc of not less than 120 degrees. A method shall be provided for connecting two motors to permit steering in unison when the motors are mounted with a 25-112 inch center to center horizontal separation. The propeller shall have not less than three blades. A repair kit, repair parts and maintenance tools shall be furnished. Motor leg shall be streamlined to prevent excessive drag and to prevent undesirable hydraulic characteristics such as water entering boat over the transom. Each motor shall be furnished with a chest constructed in accordance with MIL-C-12044, accommodating the completely assembled motor, fuel tank, tiller connecting device, mainshaft, repair kit, repair parts, maintenance tools, and conversion kit in as compact a manner as practicable. The maximum unit weight, not including fuel tank, shall not exceed 160 pounds. The outboard motors are intended for use in propelling floats, pontoons, rafts, assault boats, and other floating or stream crossing equipment in fresh water and salt water service. In accordance with MIL-O-11585, type 11, Class B, FSN 2805-132-9079, No security clearance required to obtain APPI, USAMEC.

APPI No. ME-58RI REVISION. Crushing and Screening Plant, Two Unit, Gasoline Engine Driven, Semitrailer Mounted, 35 Ton per hour capacity. The crushing and screening plant shall consist of two separate units, the primary unit and the secondary unit. Each unit shall be mobile, self-contained, and equipped with a gasoline engine as an integral part of the unit. Each unit shall be mounted on a semitrailer chassis that will permit towing either as semitrailer or as a full trailer when used with a dolly converter. Each gasoline engine, components and accessories shall be in accordance with MIL-E-11275, group 11. Equipped with a manual and electric starting system. The primary unit shall consist of a chassis upon which shall be mounted a reciprocating plate feeder with loading hopper and grizzly bars, a bypass hopper, a 15 by 24 inch jaw crusher, a primary delivery conveyor for moving the material from the jaw crusher to the secondary unit, a gasoline engine, drives, guards, operator's platform, and ladder. The crusher shall be of the jaw type with overhead eccentric action and shall crush materials ranging in size from a cross section of 13 by 22 inches down to the size of the minimum jaw setting. The secondary unit shall consist of a chassis upon which shall be mounted a 24 inch diameter by 16 inch face roll crusher, a vibrator screen, a feed conveyor for moving material from the delivery conveyor on the primary unit to the screen on the secondary unit, a return feed system for conveying crushed material to the screen for resizing, a fines delivery conveyor for conveying material into trucks or stock piling, a delivery conveyor for conveying the finished material into trucks, a gasoline engine, drives, guards, operator's platform, and ladder. The roll crusher shall consist of two rolls, with detachable one piece roll shells, one fine corrugated and one smooth, 24 inches outside diameter, 2 inches thick, and with a face of 16 inches. A 40,000 pound towing pintle assembly conforming to MS5118 shall be mounted on the rear of the semitrailer to provide a towing connection for the dolly converter when unit is being towed by a truck tractor. Unit shall be equipped with a waterproof, 24 volt, vehicular electrical system for service and black out illumination during travel. A front dolly converter shall be furnished with each semitrailer mounted unit, to permit coupling the dolly to the semitrailer by backing, a heavy duty lower fifth wheel shall be furnished. A lunette conforming to MS51337 shall be installed in a housing integral with the towbar frame. Towbar of dolly converter shall be provided with an adjustable folding, landing leg to permit coupling and uncoupling by one man. Each unit shall operate over smooth hard surfaced primary highways at speeds up to 20 mph, over unimproved roads and open, rolling, and hilly cross-country terrain up to 10 mph. Units shall be sectionalized to permit air and rail transportation. Each unit and each sectionalized component shall be provided with lifting and tie-down attachments. The crushing and screening plant is intended for use in the production of aggregate for roadways, airstrips, parking aprons, and similar projects. In accordance with MIL-C-52460, FSN 3820-247-9914, No security clearance required to obtain APPI, USAMEC.

to .078 at mouth; steel strip is perforated with 1160 holes .312 inch in diameter and welded to form tube which is copper brazed to head, 5.138 inch diameter x .93 inch long. .8074 inch diameter primer hole. Special bar steel heat treatment and stress relief required. Assembly has baked varnish finish after phosphatizing. Case considered difficult to produce. No cleaning required to obtain APPI. APSA-USAMUCOM.

APPI No. AP-80. Simulator Projectile Air Burst M74A1 loaded. Consists of 4 assays and 17 components. Charge case is 2.84" long x 1.445" diameter x 1.37" I. D. top wall .067" thick neck .39" OD x .243 long threaded. Closing disc formed shape of aluminum alloy sheet. Sealing disc chipboard. Charge is black powder and aluminum powder. Fuse assay consists of housing of aluminum alloy rod disc upper, fuse of aluminum alloy sheet delay charges of 1, component and primer assay case signal 3.83" long x 1.568" OD x 1.475" I.D. flanged base. Primer, percussion M39A1 assay. Primer mixture is potassium chlorate sulphocyanate int etc. Gas check washer and charge load of black powder. Considered difficult to produce to applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-81. Flare surface trip M49A1 assay loaded. This item consists of several small components plus bolts springs and stampings made of steel. The main assembly consists of a cover loading assembly which is 1.6" diameter x .71" high machined from a zinc die casting. The loading assay provides for 3 illum pellets and 1 ignition pellet with trigger assay and striker assay to initiate. Mfg firms bidding on this item should be familiar with pyrotechnic mfg process and ordinance standards and specifications. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-82. Signal illum ground green star parachute M19A2 is procured loaded approx 10.4" x 1.9" in diameter and weighs approx 1 pound. The item consists of 6 major parts (a) body aluminum drawn seamless tube 5" long x 1.63" in diameter x .066" thickness. (b) fuse housing alum alloy bar 1.10" long x 1.625" in diameter threaded on one end and loaded with potassium nitrate black powder and propellant. (c) tube stabilizer cold drawn steel tubing annealed r.795" long x .866 I.D. Flared to 1.20" I.D. and treaded on one end. (d) illum assay rolled hexboard sheet with detrital adhesive and is 1.40" in diameter by 1.09" long and a reinforcing cover of alum alloy steel. The illum consists of barium nitrate coated magnesium copper powder hexachlor benzene and linseed oil. The priming charge consists of black powder and quickmatch. (e) Parachute assay consists of 18 1/2" diameter nylon parachute with nylon cord leynere 29 ft in length. The packaging is made in fiber containers which are shipped in wooden boxes. Mfg firms bidding on this item will require pyrotechnic facilities and a technical staff familiar with pyrotechnic specifications and manufacturing processes. No security clearance required to receive this APPI. AP-USAMUCOM.

APPI No. AP-83. Sig illum cluster M125A1 consists of illum assay of 5 star candles and candle initiating assay all inclosed in aluminum case. Illum composition consists of magnesium barium nitrate polyvinyl chloride and binder mixture. Body is aluminum. Quickmatch is type II class A specs MIL-Q-00378. Delay assay is 1.19" O.D. x .473" thick propellant is black powder. Tube casing is steel. Tail assay consists of tail vane and rib assay plus upper and lower rings. Vanes are strip steel welded to tubing and folded against tubing when in case. They spring out when ejected. This item is considered fairly difficult to produce. It is procured loaded. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-84. Signal Illuminating Ground Parachute Red Star M126A1. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-85. Signal illum ground parachute white star M127A1. Except for chemicals which produce color both signals are essentially the same. The chemicals indicated below are for the M126A1. Consists of illum assay para assay and candle initiating assay all inclosed in aluminum box 1.442" O.D. x 4.906 long x .018" thick. Illum assay consists of magnesium strontium nitrate potassium perchlorate polyvinyl chloride and binder. Illum case is attached to parachute by .078" asbestos cord. Parachute is 24 1/2" diameter and made from silk. Quickmatch type II class A 3 1/4" long ignites illum. Expelling charge is black powder and is initiated by delay composition of potassium nitrate antimony sulfide black powder sulfur and detrital. Delay assay is 1.19" O.D. x .473" thick. Rocket motor consists of 3 grain propellant assay inclosed in metal tube casing. Tail assay consists of tail vane and rib assay upper and lower tail rings. Vanes fold flat against motor case and spring out when ejected. Firing pin is in cap which fits over one end of rocket barrel. Item is fairly difficult to produce to applicable specifications. It is procured loaded. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-86. Signal illum ground white star cluster M159A1 Consists of illum assay of 5 star candles and candle initiating assay all inclosed in aluminum case. Illuminant composition consists of magnesium barium nitrate polyvinyl chloride and binder mixture. Body is aluminum. Quickmatch is type II class A Spec MIL-Q-00378. Delay assay is 1.19" O.D. x .473" thick. Propellant is black powder. Tube casing is steel. Tail assay consists of tail vane and rib assay plus upper and lower rings. Vanes are strip steel welded to tubing and folded against tubing when in case. They spring out when ejected. This item is procured loaded. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-87. Sig illum Aircraft Star Red. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-88. Sig illum Aircraft single star green AN-M45A2. Except for chems which produce color the AN-M431-2 AN-M44A2 and AN-M45A2 signals are essentially the same. Procured loaded approx 3.85 plus and minus .10 length and diameter of 1.570. The item consists of (A) signal case assay (B) star assay upper (C) star assay lower (D) wad disc assay (E) number of components. A. Single case assay consists of two parts (1) primer percussion M39A1 (2) signal case. The signal case is the shape of a shotgun shell made from alloy rod or bar 1100-O spec ASTM B211 or B-221 length 3.38 and diameter 1.568. B. Star assay upper consists of (A) cup material at alloy sheet 1100-O spec ASTM-B209 length .25" I.D. 1.375 and wall thickness .10. Seven holes are drilled in bottom of cup 6 holes .187 diameter and a center hole .24 diameter (2) disc material at alloy sheet 1100-H14 spec ASTM B209 diameter .350 thickness .0100 with 7 holes identical to those in the cup. 3. Quickmatch type II class B spec JAN Q378 3" long. 4. Charge star weight 1.66 ounces red no 201C spec MIL-P-20334. Star assay lower specification same as B star assay upper. Wad disc assay consists of 1 was cushioning lower material felt sheet wool pressed type I class 16R3 Spec Caf 206 O.D. 1.51". Thickness .375 with a center hole of .68" diameter (2) disc retaining material paper onion skin spec jan-p-157 of 1.54 by .002 thick. The following individual components: top material steel strip ASTM-109 O.D. 1.536 by .135 thickness and maximum width .243 Disc spacer material chipboard plain class II spec uu-c-282 diameter .45" by .064 thickness (3) wad cushioning upper od 1.51" X. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AT-85. Box Assembly, Traverse Gear. The ORD 7739314 box assembly traverse gear is a sub-assembly of traversing gear assembly which traverses n tank turret by either manual or hydraulic power. Assembly is hull mounted in gunners compartment. This sub-assembly consists of following components: (a) differential assembly (b) overload clutch assembly (c) output pinion drive (d) magnetic brake assembly (e) oil pump (f) upper and lower case assembly (g) gaskets (h) seals (i) oil tubes (j) fittings (k) common hardware. SNL APP G292 FSN 2520-621-9567. No clearance required to obtain APPI. USATAC.

APPI No. AT-86. Differential 3/4 Ton. The ORD 7737314 differential with carrier assembly is a component of a front driving axle which allows vehicle wheels to have equalized traction on straightaway, and different rotational speeds during turns. Power is provided through a shaft from power take-off. This assembly consists of following components: (a) housing (b) matched ring and pinion gear (c) side gears (d) spider pinions (e) pinion shafts (f) washers (g) lock nut (h) anti-friction bearing (i) differential case (j) common hardware. SNL APP G741. FSN 2520-737-3714. No clearance required to obtain APPI. USATAC.

APPI No. AT-87. Drive, final with container. The ORD 10936609 final drive is a hull mounted component of power train for a tracked vehicle and provides power from crossdrive transmission to drive sprockets. This drive assembly consists of following components: (a) housing and cover assembly (b) gear shafts (c) drive gears (d) anti-friction bearings (e) seals (f) gaskets (g) spacers (h) common hardware. Skid mounted metal reusable container to be furnished by supplier. SNL APP G296. FSN 2520-964-9203. No clearance required to obtain APPI. USATAC.

APPI No. AT-88. Drive Auxiliary. The ORD 1090942 auxiliary drive is used to drive the generator, hydraulic pump and engine cooling fan in a tracked vehicle. This is a duplex unit, hull mounted and powered by a shaft from the power take-off unit. This drive unit consists of following components: (a) gear housing (b) shaft housing (c) clutch housing (d) filler tube (e) pulley (f) clutch case (g) gear case (h) level gears (i) anti-friction bearing (j) magnetic clutch (k) gaskets (l) seals (m) receptacle (n) gear shafts (o) lock nuts (p) common hardware. SNL APP G295. FSN 2520-034-0768. No clearance required to obtain APPI. USATAC.

APPI No. AT-89. Transmission assembly with metal container. The DRD 5793527 transmission is

used to transmit driving power from the engine through selected gear ratios and speeds to driving wheels. This transmission is classed as a conventional synchromesh type with provision in main unit power take-off unit. This transmission assembly consists of following components: (a) case (b) cover assembly (c) clutch housing (d) attached parts (e) shift mechanism (f) gear shafts (g) gear (h) anti-friction bearings (i) seals (j) gaskets (k) common hardware. Metal reusable container for transmission to be furnished by supplier. SNL APP G144. FSN 2520-973-4086. No clearance required to obtain APPI. USATAC.

APPI No. AT-90. Pump fuel injection. The ORD 10865193 fuel injection pump is a component of the fuel system for a tracked vehicle, and furnishes fuel through a metered, timed injection cycle to a 12 cylinder air cooled gasoline engine. This injection pump consists of following components: (a) idle adjustment assembly (b) wobble plate pump assembly (c) distributor block assembly (d) metering valve (e) metering head assembly (f) gasket set (g) common hardware. SNL APP G298 (G274). FSN 2910-714-8653. No clearance required to obtain APPI. USATAC.

APPI No. AT-91. Motor, windshield wiper, pneumatic. The ORD 7539696 windshield wiper motor is a major component of the windshield wiper group for a wheeled vehicle. This motor assembly consists of following component: (a) cylinder assembly (b) head assembly (c) piston (d) shaft assembly (e) caps (f) springs (g) internal head assembly (h) end caps (i) stop assembly (j) cover assembly (k) mounting plate (l) common hardware. SNL APP G742. FSN 2540-391-4322. No clearance required, to obtain APPI. USATAC.

APPI No. AT-92. Tire pneumatic 9:00 x 20, 8 ply NDCC nylon truck and bus. The ORD 515090 pneumatic tire is a major component of the traction system for a wheeled vehicle. This tire assembly has the following basic characteristics: (a) ply rating .8 (b) type classification — trk and bus (c) tread type — NDCC (d) cord material — nylon (e) max rated load — 3240 lbs (f) inflation pressure 75 PSI (g) APP width 10.9 (h) APP dia 41.1 in. Specification MIL-T-46729A. SNL APP-Multiple. FSN 26100262-8677. No clearance required to obtain APPI. USA-TAC.

APPI No. AV-95R-1. Cancellation of APPI. Indicator, published previously as APPI No. AV-95R-1, indicator, attitude, synopsised in 5 July 1966 issue of Commerce Business Daily, is hereby cancelled by USAAVCOM.

APPI No. AV-111. Indicator, tiro and slip. Integral stabilization, pointer, I. Used to show pitch of Acft., fluorescent finish, w/o instrument lamp, 28V DC, electrical connection, 1-3-PIN contacts, and 10066-10SL-3P. O/A dim., 5.235 in. dia., 2.35 in. W. and H. Bezel Mtd, MIL-I-7627, Type MD-1A. FSN 6610-557-0900. This item is on OPL No. 7627-3. Interested concerns should contact Navy Bureau of Weapons to have their product tested and qualified. No clearance required to obtain APPI. USA-AVCOM.

APPI No. AV-112. Generator assembly, engine driven, 30 Volt. DC. Type MA-3. Appl., multiple aircraft. FSN 2925-628-8179. This item is on OPL No. 6162-13. Interested concerns should contact Navy Bureau of Weapons, Washington, D. C. to have their product tested and qualified. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-113. Indicator, indicated air speed, dial, 1 scale, air speed, 0 to 250 knots range, 20 knots graduated increments, finish of graduations, fluorescent numerals and lined increments, pointer data I, fluorescent finish w/o instrument lamp, O/A dim, 2-1/8 in. deep form 1/8 in., 2-3/4 in. dia., panel mtd., Gov't spec data, MIL-I-5721A, MS 28021-1. FSN 6610-726-0247. This is a QPL item. Interested concerns should contact Wright Patterson AFB to have their product tested and approved. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-114. Generator, tachometer. Electrical output, accuracy and operating speed per MIL-G-5413. 4 Rotor poles, dim 4-3/8 in. lg., excl shaft, 2-3/8 in. W., 3-15/32 in. H. shaft extends .562 in. from end of enclosure, end mfg., 4 holes, .281 in. dia. on 1.976 in. by 1.976 in. centers, terminal, 1, connector, right angle, sq. shaft, .244 in. across flats. MIL-G-5413, Type I, AN 5547, FSN 6680-557-0835. This item is on OPL No. 5413-15. Interested concerns should contact Bureau of Naval Weapons to have their product tested and approved. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-115. Indicator, electrical tachometer. Panel Mfg., 0 to 4500 RPM O/A Range, 1 Scale RPM, 0 to 45 range of numerical marking, 100 RPM smallest increment, major & minor graduations white, 1 pointer, rotating hand, black W/white tip, marked, 1, 1 pointer, rotating hand, black W/white tip, marked 2, RD Case, O/A dim., 3 in dia., 5 in., max deep, 1 electrical connection, 3 pin insert contacts, MS 33678-145-7P, operating mechanism, synchroous motor, AC, 1 to 1 speed ratio of generating

considered difficult to produce to required specifications. No clearance required to receive APPI. USAMUCOM-APSA.

APPI No. AP-381 reprinted from previous printing in the CHD is as follows:-----
APPI No. AP3 Ammunition item metal fabrication. Projectile HE 175mm M437 mpts assembly. Approximately 34 inches long, 10 components, 6.88 inch outside diameter, parabolic shape with tapered base section. Steel ASTM A273-58T sections 1-14 inclusive for hot forge and heat treat method. Production requires highly technical staff engineers, metallurgists, chemists, and tool designers. Considered very difficult to produce to applicable specifications. APSA-USAMUCOM. Secret clearance required.

APPI No. AP-90, Simulator Booby Trap Flash M117 loaded - consists of approximately 18 components. Complete assembly is approximately 4" long x 1" diameter fabricated from steel strip FS-1009 high carbon steel bright music wire kraft paper 60 pounds grade B chipboard class 2 jute paper commercial felt number 10 glue quickmatch adhesive (type type 11 grade B and charge composition consisting of 50 PCT potassium perchlorate grade 1 33 PCT antimony sulfide and 17 PCT magnesium type 1 grade A granulation number 12. Firms bidding on this item should have a technical staff familiar with pyrotechnics manufacturing processes. This item is considered somewhat difficult to produce in accordance with government specifications. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-91, Fuze Hand Grenade Practice M205A2 consists of 11 components and 5 assemblies. Body approx 2.3" x .81" x 1.7" L material zinc base alloy die casting AG40A or AC41A ASTM B-86 or aluminum alloy die casting ASTM B-85. Lever formed shape approx 4.0" L curved section by right angle lip section approx 1.7" L x 24 GA thick material steel strip CR temper 3, pull ring assy 2 components cotter pin steel wire type B 1 1/8" L Ring pull 1 1/2 coils close wound 1/4" D X .106" thick material steel wire WD 1020, Washer .75" OD X .52" ID X .078" thick material rubber vulcanized class RS910AF2. Igniter assy 2 components case lighter 1.78" L X .243" OD X .243" ID X .035" Wall thick at base material aluminum alloy strip 5052 ASTM B209, Charge black powder, Primer holder assy consists of 2 components holder primer 4.72" D Taper X .150" W with concentric center holes .173" and .10" D primer percussion M42 assy .1756" D X .119" L with 3 components cup anvil and cover. Charged with PA-101 primer composition or alternates. Striker assy consisting of 4 components. Striker hinge shape .494" W X .28" W X approx .79" L material steel strip S-1007 cold rolled. Point striker 5/16" D X .25" L material steel bar 1117 1113 1120 cold finished ASTM-A108, Pin hinge .67" D X .157" L material steel bar 1018 or 1020 cold finished ASTM A108, Spring .42" L X .28" D steel wire .04" D music heat treated. Protective finish cadmium or zinc plate. Manufacturing firms bidding this item should be technically staffed with engineers chemists and tool designers familiar with pyrotechnic manufacturing process. This item is considered somewhat difficult to produce to ordinance standards and specifications. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-92, Mine AP M16A1. Complete assy is approx 4" diameter X 3 1/8" long and consists of approx 17 components. Body 3.85" diameter X 3.89" long and 3.275" ID 3.35" deep with counter-bore and threads material gray iron casting. Well detonator cup shape approx 1" diameter X 2.4" long with short threads on outside and inside material zinc base alloy die cast or polystyrene plastic. Plug top 3.47" diameter X .40" thick with hub 1" thick X 1 3/8" diameter with 13/16" threaded hole material gray iron casting. Pipe flash approx 1" diameter X 3.5" long and .532" ID with short threads on each end material zinc base alloy die casting or 1/2" standard steel pipe commercial. Container assy 4.045" diameter X 4.74" long fabricated from .014" thick steel by seaming soldering and crimping. Other misc components consists of gaskets copper strips cup detonator aluminum sheet .015" thick. Plug shipping zinc base alloy die casting or polystyrene plastic. Disc flash gliding metal .003" thick. Washer lead sheet .062" thick. Plug filler hole steel 1009 to 1020 .059" thick. Gasket rubber .078" thick. Finishing aluminum alloy rod 1.125" diameter. Holder delay zinc die casting or aluminum rod .922" diameter housing delay zinc base alloy die casting or aluminum alloy rod 1/2" diameter and washer delay. Same material as holder delay. Various components require phosphating painting plating to meet various salt spray requirements. Manufacturing firms bidding this item will require a competent staff of engineers metallurgists and tool designers to design and maintain precision tools. This item is considered somewhat difficult to produce in accordance with specifications. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-93, Fuze Mine M605 MPTS is 4.44" L X approx .94" W with 3 assemblies and 22 components. Release safety assy consisting of stand-

ard ordinance eyelet cotter pin and 10 inch cord material commercial glazed curtain fixture NR 2 or commercial white 8 strand cotton cord. Pin safety striker positive assy 2 components cord 10" L material cord linen waxed 6 ply and pin safety striker 1.0" L X .11" Max D with 3 machined steps to minimum of .044" with holes drilled in diameters at each end material zinc die cast base alloy cast comp B alternate alum alloy die cast comp 5 5A 10 or 11. Prong 3 EA 1" L X .075" D with flats .078" x 1 1/16" W 1/8" from end of prong material steel music wire. Head safety .50 L X .285" D drill thru .125" D with slot .075" x .09" L material aluminum alloy rod condition T alternate aluminum alloy die cast comp 5 5A 10 or 11 alternate zinc base alloy comp B Pin 19" L X .0360 D with .08" eye inside diameter at one end material steel music wire. Pin .98" L X .280" D with machined flat on side to .245" x .55" L off center hole .312" D and trunnion. 212" D X .425" L material steel bar FS1117, CF. Trigger, 1.225" L X major diameter .665" step diameter .375" with .129" center hole tapered .226" deep on one end with .42" L flat on opposite end, material zinc base alloy die cast comp B alternate alum alloy die cast comp 5 5A 10 or 11. Ring release 3/8" O. D. with 2 projecting ends, approx 2 full coils, material steel, spring. 194" OD x 4 1/2 coils, free height .277" material steel. .025" D music spring wire. Spring 29" OD x 18 1/2 coils, free height 1.473" material steel. .045 inch diameter, music spring wire. Striker 3.213" L x .126" D with collar .21" D with flats .150" W and 2 flats .076" D at approx 1.45" from 30 deg taper point, material steel bar. FS1117, Case, 2.13" L x .505" D with two stepped collar .755" and thread .4375" 20 UNF-1B plus thread .625 11 UNC-1A with .4375 ID, material zinc base alloy die cast, comp B alternate alum alloy die cast comp 5 5A 10 or 11. Washer 8 point star shaped. .368" D x .128" ID x .0538" thick, material steel strip FS1009, CR. Temper No. 2, finish No. 3, alternate, steel, strip, FS1015 or FS1020, CR. Temper No. 4, finish No. 1, gasket, .75" OD x .52" ID x .078" thick material, synthetic rubber, sheet type RS 510BF2, Spring, .65" OD, 3 coils, free height .57" material steel. .051 D diameter, music spring plate .348 OD tapered at .85 DEG x .13" ID x .173" thick, Husine primer .87 L x .50" D with thread .4375 20 UNF-1A .115 L and thread .4375 20 UNF-1B .37" L material, alum alloy rod alternate, zinc base alloy, comp B head, flat igniter, 1.4" L X .375 max D with one end thread .4375 20 UNF-1A, .05" to .24" L center bores, .199" D X 1" L and .101" D X .52" L, machined and double grooved on opposite end, Tube, cup shape, 1.44" L X .327" OD with .217 IS and .011 base wall material alum alloy sheet temper "O". This item is considered difficult to manufacture in applicable specifications. No security clearance required to receive this APPI. AP-USAMUCOM.

APPI No. 38, Chemical Agent Thickener, Incendiary Oil, M4. The thickener, incendiary oil, M4 is a chemical agent composed of the diacid aluminum soap of Isooctanoic acid and an antiagglomerant in accordance with Military Specification No. MIL-T-50009A. The isooctanoic acid shall consist of a mixture of acids derived from isobutyl alcohol and shall contain principally dimethylhexanoic acid, methyl heptanoic acid, and methylpentanoic acid. Commercial mixing, filtering and drying equipment would be required. No security clearance is required to obtain APPI.

APPI No. AV-122, Stand, test, aircraft generator. Variable speed drive, generator mounting bracket, blower tachometer, dual shaft output, for 3 phase 50/60 cycle, 200/440 volts, operation with reduced voltage starting. FSN 4920-626-9699. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-123, Container, reinforced plastic, reusable. Maintenance support (X-4) in accordance with limited coordination Military specification. Capacitv of box is 200 cu ft approx 1,000 lbs. in weight, for use with A 6,000 lb payload. FSN 8115-980-8193. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-124, Riveter, blind, pneumatic. 3/16" in dia, max rivet capacity, pulling head attachment. Accessories, 1 case (95354), 1 grip gage, double end 1/8 and 5/32 in (G-58-1), 1 Grip gage, double end 3/16 and 1/4 in (G-58-2). FSN 5130-580-2305. Procurement by P/N. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-125, Elbow, swivel nut, hose, Cres body and nut, 90 deg angle, 5/8 in OD tube, ID of tube, A/A, hose connection end data, style 7, thd male, sect B, RDG 43, U/W, .500 in ID hose, 1.965 in leg LG, sect A.5, RDG 43, swivel nut end data, style 6, thd female, sect B, RDG 43, 7/8 in 14 thd size, UNF or NF, class 3B thd or class 3 FIT, .500 in lg thd, 1.408 in lg LEG, sect A.5, RDG 43, 37 Deg Seat, 1500 PSI operating pressure rating, passivated, Gov't Std data, MIL MS27065, FSN 4730-052-9520. No clearance required to obtain APPI.

APPI No. AV-126, Indicator, pressure, Dial, 1 psi torque pressure scale, 0 PSI to 50 PSI, 1 PSI graduated, increments, finish of graduations, fluo-

rescent letters numerals and lined increments, pointer data, clock-hand type, fluorescent illuminated, incased, w/o instrument lamp socket, electrical data, AC, 26V, 400 cycles, single phase, connection data, electrical, 1, 3 pin contacts, and 10066C-10S1-3P, o/a dim., 2-5/8 in lg, 2 in dia, clamp mte., MIL-1-25578, type MO-3, appl engine instrument, Acft. FSN 6620-581-2268. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-127, Switch, fuel. For auxiliary power unit (APU), Appt, CH-47 aircraft. P/N identification only. FSN 2915-968-4649. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-128, Filter, fluid, pressure. Permanent type, 6225 PSI, max rated operating pressure, single unit, 1 filtration element, cres, metal encased, reusable, 10 microns, nom filtration, 25 microns, absolute filtration, 1 inlet and 1 outlet connection, thd for tube fitting, w/o tube fitting, 9/16-18 thd, UNF, RH, internal, side location, w/Air-bleed valve, fastened by 2 mtg holes in head, dim., 5.620 in lg, 2.200 in W, 2.540 in to 2.560 in H, aluminum alloy sediment, appl, hydraulic inst., Acft. FSN 1650-963-2106. No clearance required to obtain APPI. USAAVCOM.

APPI No. AT-93, Tire Pneumatic 9.00 x 16, 8 ply NDMS nylon lt truck. The MS 35388-1 pneumatic tire is a major component of the traction system for a wheeled vehicle. This tire assembly has the following basic characteristics: (a) ply rating - 8 (b) type classification - lt trk (c) tread type - NDMS (d) cord material - nylon (e) max rated load - 2640 lbs (f) inflation pressure - 50 PSI (g) API width 10.7 in (h) APP dia - 36.6 in. Specification MIL-T-46729A. SNL APP - Multiple. FSN 2610-540-4719. No clearance required to obtain APPI. USATAC.

APPI No. AT-94, Pad, driver's hatch, crash. The ORD 10866033 pad is a protective device mounted in the hatch ring of a tracked vehicle for benefit of crew. This pad assembly consists of following components: (a) frame (b) cushioning material (c) cover (d) mounting ring. SNL APP-G294, G312, FSN 2540-767-5411. No clearance required to obtain APPI. USATAC.

APPI No. AT-95, Rectifier, metallic assembly. The ORD 10936129 rectifier in conjunction with an alternator comprises the 24 volt electrical generating system for an engine installed in a tracked vehicle. This rectifier assembly consists of following components: (a) metal case (b) activated rectifier plates (c) spacers (d) insulated cables (e) cannon plugs (f) mounting pins (g) common hardware. Rectifier required to be fungus and waterproof, rust and corrosion resistant. SNL APP-G300, FSN 6130-065-1975. No clearance required to obtain APPI. USATAC.

APPI No. AT-96, Parts kit, universal joint propeller-shaft. The ORD 8331569 parts kit is a direct replacement for 2 1/2 ton wheeled vehicle propeller shaft universal joints that become unserviceable. This kit consists of following components: (a) 4 bearing assemblies (b) journal assembly (c) 4 snap rings. SNL APP - Multiple. FSN 220-692-6200. No clearance required to obtain APPI. USATAC.

APPI No. AT-97, Parts Kit, universal joint, front and rear axle drive shaft. The ORD 5702194 parts kit is provided for both front and rear wheel drive shaft joints for a 1/4 ton wheeled vehicle. This kit consists of following components: (a) 3 bearing sets (b) cross assembly (c) 4 seals (d) 2 snap rings (e) 10 washers (f) "U" bolts (g) common hardware. SNL APP-G838, FSN 2520-857-1413. No clearance required to obtain APPI. USATAC.

APPI No. AT-98, Shock absorber, assembly front. The ORD 7409617 shock absorber assembly is a delco repairable type and a component of the 5 ton wheeled vehicle suspension system. This shock absorber assembly consists of the following components: (a) upper and lower over tube with integral eye (b) reservoir tube (c) piston with rod assembly orifice plate (d) piston rod guide with seal assembly (f) special washers (g) springs (h) valves (i) baffle ring. SNL G744, FSN 2540-740-9617. No clearance required to obtain APPI. USATAC.

APPI No. AT-99, Disk, driven clutch assembly. The ORD 8735503 disk assembly is a component of the 5 ton wheeled vehicle power train. This assembly consists of following components: (a) cast or ssembly consists of following components: (a) cast or forged steel hub with internal splines (b) flexible disk (c) 2 friction facings (d) rips (e) adhesive (f) sewing thread. SNL APP-G744, FSN 2520-097-3197. No clearance required to obtain APPI. USATAC.

APPI No. AT-100, Cover assembly, cargo body top. The ORD 6416338 cover assembly is used to protect personnel and cargo from inclement weather. This unfavorable conditions during vehicle operation. This cover assembly consists of following components: (a) No. 8 processed canvas (b) grommets (c) tie-down (d) straps and buckle assemblies (e) rivets (f) sewing thread. SNL APP-Multiple. FSN 2540-741-6338. No clearance required to obtain APPI. USATAC.

APPI No. MI-19R1, Self Propelled Hawk Platoon Retrofit for Launcher (HAWK MISSILE SYSTEM). This retrofit will include repackaging of the Stan-

and Hawk Launcher Electronics for mounting on a tracked vehicle (XM 727) of the M 113 family. Various hydraulic and other mechanical subsystems will be provided for the XM 727 to position the anti defense launcher, suspension lockout pistons, blast deflector launcher, suspension lockout pistons, reeling of cables, etc. required to prepare the vehicle for missile launch. This APPI is released for sub-contracting opportunities only. Secret clearance required to obtain APPI. No Federal Stock Number assigned. Request for additional information should be directed to Raytheon Co. Missile and Space Division, Andover, Mass. USAMICOM.

APPI No. MI-65. Platoon Command Post (PCP). (HAWK MISSILE SYSTEM) The Platoon Command Post is an all weather mobile aluminum skin shelter which serves as the Self Propelled Platoon Command Center. The aluminum skin shelter is approximately 142" long, 48" wide and is mounted on an M113 chassis. A variety of items are included in the shelter, including: a variety of electrical equipment, etc. This APPI is released for sub-contracting opportunities only. Additional information should be directed to Raytheon Co. Missile and Space Division, Andover, Mass. No Federal Stock Number assigned. Secret clearance required to obtain APPI. USAMICOM.

APPI No. MI-66. The Forward Area Contact Support Set (FACSS) (SHILLIEGH MISSILE SYSTEM) includes a Transmitter Beam Pattern Analyzer, Guidance Set Group Analyzer and an Accessory Case, each contained in a waterproof case. The FACSS is used to perform the functions of measuring transmitter beam intensities, ratio of beam intensities and find to having a removable major item of the Shilliegh Guidance Set Group installed in the Shilliegh M113 vehicle. No Federal Stock Number assigned. Request for additional information should be directed to Raytheon Co. Missile and Space Division, Andover, Mass. No Federal Stock Number assigned. Secret clearance required to obtain APPI. USAMICOM.

APPI No. MI-67. Advance Development of the Surface-to-Air Missile Development (SAM-D). The SAM-D is intended to simultaneously acquire, track, identify, and destroy multiple air-supported targets, utilizing high performance missiles at a minimum reaction time. This APPI is released for sub-contracting opportunities only. The following contractors may be contacted for additional information on this APPI once they are presently performing the Contract Definition. Raytheon Co. Missile Systems Div., Bedford, Mass. 01110, Hughes Aircraft Co., Ground Systems Group, Fullerton, Calif., 92634, Radio Corp. of America, Defense Electronics Products, Mountview, N. J. 10020. No Federal Stock Number assigned. No clearance required to obtain APPI. USAMICOM.

APPI No. ME-69RI REVISION. Grader, road, motorized, air-droppable, diesel engine driven. Grader shall be diesel engine driven, pneumatic tired, 4 or 6 wheeled, 10000 lb. min blade pull, 12 ft. blade and operable by one man for general construction work such as coarse and fine grading, low and high bank cutting, scarifying, and flat and V-ditching. Shall grade forward and reverse. All parts of the grader shall withstand without damage the full power of the engine at all gear ratios and under all working conditions. The grader moldboard shall operate in all positions without blade chatter, weaving, or rocking. The diesel engine shall conform to MIL-E-11276. In accordance with MIL-C-52416. FSN 3303-901-6175. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-73RI REVISION. Generator set, gasoline engine driven, 100 KW, 400 cycle, alternating current. This set is a portable, air-cooled, 10 KW, 0.8 power factor lagging at 400 cycles per second, gasoline engine driven, alternating current, tubular frame, skid mounted. Set shall be connectable for the following voltage ratings: 3-phase, 4-wire, 120 volts line-to-neutral and 208 volts line-to-line (120/208 volts); 3-phase, 3-wire, 120 volts line-to-line; single phase, 2 wire, 120 volts; single phase, 3 wire, 120/240 volts. The diesel engine shall be a military design engine, Model 4A-084, FSN 2805-776-0485, and unless otherwise specified will be furnished by the Government. Set is intended to supply power for general purpose use. In accordance with MIL-G-52473 and Data List DL13211E4950. FSN 6115-926-6843. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-80RI REVISION. Compressor, reciprocating, power driven, air. This is a 15 cfm, 175 psig, compressor, gasoline engine driven, garage type. Multistage, reciprocating, air cooled, piston compressor with an air reservoir, air hose, with an automatic unloader and air cleaner. Compressor shall be a base mounted unit, capable of being assembled on a Government loaned 1/4 ton, 2 wheel, military standard trailer chassis Model No. M569, FSN 2320-884-4817. The capacity of the receiver tank shall be not less than 20 gallons. Unless otherwise specified, a Government-furnished military engine 6 hp engine, Model No. 4A032, FSN 2804-

776-0483, shall be provided. The compressors are intended for use as a source of compressed air in the normal operations conducted at filling stations and vehicle maintenance shops. In accordance with MIL-C-13874, Type 1, Class A, Style 2, FSN 4310-752-9634. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-101. Distributor, bituminous material, tank type, truck mounted, 800 Gallon Capacity. This distributor shall consist of a tank heating system, pumping unit, full circulating spray bar which can be extended to length of 24 feet, hand spray attachment, and all accessory equipment necessary to make a complete distributor. The overall width of the complete distributor when bar is in folded position shall be not more than 9 inches. The bituminous pumping unit shall consist of the gasoline engine, clutch and transmission. The 375 GPM bituminous pump shall be powered by one industrial type gasoline engine conforming to MIL-E-11275, Group 2. The engine shall be furnished complete with all accessories. Distributor shall be mounted on a Government furnished military truck chassis, 5-ton, 6x6, Model No. M61-A2, including a personnel heater and defroster, slave receptacle kit, and without winch, in accordance with MIL-T-740. The distributors are primarily intended for use in accurately applying bitumen during formation of bituminous surfaces and during certain types of soil stabilization processes. The distributors can also be used for transporting or transferring bitumens or for application of bitumen for dust alleviation. In accordance with MIL-D-575, Type 1, Class A, FSN 3895-663-4680. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-102. Sawmill, circular, semi-trailer mounted, 60" Blade, Diesel Engine Driven. The mobile sawmill shall be "right hand" and shall consist of a log deck, deck conveyor, log stop, log loader, carriage track, carriage husk, handsaw, sawdust-removal system, lumber rolls, diesel engine, a running gear, and a skid-mounted, diesel-engine powered, 3-saw edger that is transportable on the basic mill. The sawmill shall withstand towing at speeds of 30 to 40 mph over paved roads and speeds of 15 to 20 mph over gravel roads, without breakage or permanent deformation of any part or component. Sawmill shall load and saw logs up to 36" in diameter and 20 ft. in length, and shall produce not less than 1200 feet board measure of 1 inch cants per hour from No. 1 green oak logs 18 to 24 in. in diameter. This production rate shall be achieved when employing not more than seven men. Sawmill shall be capable of being assembled without welding from the transport position in not more than 5 hours by seven men with a 10-ton crane, and disassembled without any members being cut and prepared for transport in 2 hours by seven men with a 10-ton crane. Overall length shall be 38 ft. 10 in., overall width 9 ft., overall height 10 ft. 8 in., gross vehicle weight 48,000 lbs. Both diesel engines including instruments and instrument panel, means for connection to an auxiliary fuel supply, a precleaner, safety devices, a clutch, a charging generator and regulator, a charging receptacle, and an enclosure (housing) shall conform to Specification MIL-E-11276. Each fuel tank shall be of a capacity for 4 hours of continuous rated-load operation. Sawmill engine shall develop not less than 160 intermittent brake horsepower at a speed of 1,800 rpm as established by the engine qualification tests. Edger engine shall develop not less than 40 intermittent brake horsepower at a speed of 1,800 rpm as established by the engine qualification tests. Sawmill machinery shall be installed on a folding, tandem-axle semitrailer. The frame shall be of all steel welded construction with longitudinal frame rails extending the full length of the load carrying platform. A landing gear assembly of the ball screw type shall be located in the front of the semitrailer. The landing gear shall be the 2-speed, vertical-operating type with landing pads not less than 18 by 18 inches and each leg shall be capable of individual operation for use as leveling jacks. The semitrailer shall be furnished with a straight air brake system with service and emergency breakaway activation. Sawmill shall be equipped with a 24 volts vehicular electrical system, with service and breakout lighting, and shall be provided with not less than four floodlights with mounts for night operations. The log deck shall be of steel construction and shall have a 3-section, roller-chain conveyor powered by a reversible, hydraulic motor. In addition, a dummy skid (without chains) shall be located adjacent to the conveyor between the head saw and conveyor to facilitate load-travel speed shall be 30 fpm plus or minus 1 fpm. The carriage track shall be not less than 43 feet long saw, and shall be positioned in relation to log deck, head saw, and tail race so that logs 20 feet in length may be sawed. The carriage shall be of steel construction and shall be approximately 30 inches wide and 16 feet long. The carriage shall have not less than four trucks with 10-inch-diameter cast steel wheels. The carriage shall be actuated by a wire-rope feed that is spooled on a grooved drum and powered by a reversible, hydraulic motor, capable of operating the carriage at a rate of 10 complete cycles per minute

with a stroke length of 15 feet when the carriage is loaded to a gross weight of 4000 lbs. Sawmill shall be provided with one 54-inch and one 60-inch diameter blade, inserted-mouth-type, right-hand head-saw tensioned to operate at 500 rpm. Sawdust-removal system shall be of the blower type powered by the sawmill engine. The blower shall have a capacity of not less than 4000 cfm of air with pressure equivalent to 9 inches of water when operating at 2,700 rpm. Edger shall have one fixed saw and two adjustable saws, which shall be the 14 inch diameter, 10 nose, inert-tooth type. Sawmill shall be provided with lifting and tie-down attachments. Sawmill is intended for use in sawing lumber and timber for military bridges and other heavy construction. In accordance with MIL-S-52205, FSN 3210-585-8197. No security clearance required to obtain APPI. USAMIC.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Nov. 1, 1966 page 2 No. PSA 4177 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AP-30R-2. Projectile, HE, 4.2", M329A1. MPTS is 16.395" maximum length by 4.193" maximum outside diameter, 3 piece design, consisting of body, 14.28" long by 4.191" maximum outside diameter, 3.73" inside diameter tapers down to 3.062" nose opening through a 10.218" basic radius, wall thickness in nose area is .23", base is counterbored to 3.750" inside diameter for a depth of .50", material, tube, steel, nonresulphurized, Specification QQ-T-830, Nose Adapter, 3.215" maximum outside diameter by 1.53" long threaded with a 2.0-12NS-1B thread, material, steel, nonresulphurized, ASTM Specification A107 or A108, Base, 4.165" maximum outside diameter by 1.47" long, .9375-14NS-2A, L 11. Thread on one end, material, steel, nonresulphurized, ASTM Specification A107, or steel, cold extruded, Specification MIL-S-11310, each of the above components must have a minimum yield strength of 45,000 pounds per square inch at 1 percent offset. The base and nose adapter are brazed 360 degrees to the body with silver brazing alloy, the assembly must withstand an internal hydrostatic pressure of 2500 pounds per square inch for 15 seconds without leaking. The interior and exterior surfaces are cleaned and phosphatized followed by a lacquer primer on one interior and a lusterless enamel in lacquer paint on the exterior, the exterior must withstand a 144 hour salt spray. Two plastic Protector Caps, one for the thread on the base and one for the opening in the nose adapter are also required. No clearance required.—AP USAMUCOM

APPI No. AP-31R-2. Fuse, MTSQ, M564 w/ Detonator and Relay loaded is approximately 2.4 inches maximum diameter by 5.816 inches long, procured detonator and relay loaded, complete assembly consists of approximately 166 component parts. Major components, Body, 2.40" diameter by 1.53 inches long with various counterbores, thread, holes and slots, material, brass, Specification MIL-B-13351 or QQ-B-637, Ring, Lock, 1.775" inside diameter by .27" long with 1-15/16" 24 thread on outside diameter with two .20 slots one side, material, stainless steel 416, QQ-B-763, Head, 1.785 inches long, 1.610" outside diameter tapers to approximately .055", several counterbores and a .8125 -28NX-2B thread, material, aluminum alloy 2024, temper T4, Specification QQ-A-268, alternate material aluminum alloy die casting, Specification QQ-A-591, Adapter, 1.377 inches long by 1.00" in diameter, 1.00-20UNEF, 2A thread on one end with a .8125 -28NS-2A thread on opposite end, material, aluminum alloy 2024, temper T4, Specification QQ-A-268 or aluminum alloy 7075 temper T6, Specification QQ-A-282 or aluminum alloy die casting, Specification QQ-A-591, Cup, Booster, .825 inches long by 1.703" OD, 1.536" ID, .761" deep, 1.600 -20NS-2B-LX thread in mouth of cup, material, aluminum alloy, 3003-N14, Specification ASTM-E209 or aluminum alloy, composition 6061F, Specification MIL-A-12545, Plug, Closing, 1.655" diameter by .395" L with various holes and counterbores, material, aluminum 2024-T4, Specification QQ-A-268 or 267 Temper 351 or QQ-A-268 or aluminum die casting, Specification QQ-A-591, Housing, 1.884" D by 1.625" L, 1.67" counterbore 1.167" deep with various holes and a 1.00" 20 thread inside one end, material, stainless steel 416, Specification QQ-S-763, Cup, Lower, 2.185" D tapered to 1.585" small end with various size holes and counterbores, OD is graduated from zero to 105, material, aluminum 2014-T6, Specification QQ-A-261 or 2024-T4, QQ-A-267 or 268, Body, 1.74" D by 1.123" L, various counterbores, precision holes 1.74"

20 thread on outside, also 1.60" 20 thread one end, material, brass, free machining, Specification MIL-B-13351 or brass, Composition 3, half hard, Specification QQ-N-35. Other small components such as gears, pinions, shafts, screws, springs, discs, collars, pins, bushings, and "O" rings. Sub-assemblies and assembly must withstand a series of rigid tests including arming, non-arming, jolt, jumble, transportation-vibration, temperature-humidity water-proofness, 40 foot drop, dynamic regulation at 6000 RPM so that timing error is 0.18 percent maximum from 2 to 100 seconds at the specified frequency, ballistic tests also required. Manufacturing firms will require a highly competent technical staff of engineers, metallurgists, technicians, tool engineers to design and maintain precision tools for mass production of precision parts. Contractor shall provide and maintain an effective quality assurance system in accordance with Specification MIL-I-45208. This item is considered extremely difficult to produce in accordance with applicable specifications. No clearance required. AP USAMUCOM.

APPI No. AP-39R-1, Projectile, Chemical, 155mm, M121E1, MPTS Assembly consists of six (6) components. Body approximately 23.75" L x 6" D, nose section threaded and precision finished within 16 to 32 micro-inches, material, steel, ASTM-A273 or MIL-S-11310, Adapter, Fuze, 2.88" D x 2.21" L x 1.909" ID, external and internal threads, material, steel, ASTM-A107 special bar quality or steel tubing, Specification QQ-T-830, Rotating Band, 6.36" D x 6.09" ID x 1.075" wide, material, gilding metal, Specification MIL-B-20292 or MIL-B-20295, Gasket, 2.19" D x 1.84" ID x .125" thick, material, rubber, neoprene, Type S, Class SC, Grade SC515, Specification MIL-R-3065, VCI Paper, approximately 20" square, material, volatile corrosion inhibitor paper, Type I, Class 3, Style C, Specification MIL-P-3420, Gasket Shipping 2.83" D x 2.5" ID by .13" thick, material, rubber, Specification MIL-R-3065, Type S, Class SC, Grade SC820 A, B, as specified in MIL-STD-417, Magnetic particle inspection in the nose section of each projectile required. Each projectile must withstand a helium gas test. Exterior is surrounded with one atmosphere of helium, a maximum of twenty (20) microns of mercury absolute pressure. Maximum leak permitted is $i \times 10$ to the minus 6, centimeters per second. Projectiles are packaged on wood pallets for shipment. This item is considered very difficult to produce to specification requirements.

APPI No. AP-40R-1, Case, Cartridge, 105mm, M14B4, MPTS Assembly is 4.211" maximum OD x approximately 14.64" L, (3) components, Body, 14.142" L x 4.211" maximum OD at mouth, material, steel, 1007 to 1020 cold-rolled, finish No. 1, Specification QQ-S-698, .024-.006" thick. Body to be wrapped from a trapezoidal blank so as to provide three thicknesses of metal at base and one thickness at the mouth, with overlap at mouth. Base, 4.688" OD x .55" thick with step diameter 4.344" x .372" W and centered primer case hole .546 ID with .63" counterbore, material, steel, special bar quality, ASTM Specification A107, Collar 4.04" OD x .35" thick, formed ring, 2.56" ID, with V-notch at bottom and angled lip, material, steel, special bar quality, ASTM Specification A107. The three (3) items, phosphate coated and varnished prior to assembly. This item is extremely difficult to manufacture to applicable specifications. Manufacturing firms bidding this item will require a highly competent technical staff of engineers, metallurgists and tool design engineers to design, fabricate and maintain precision tools for mass production of this item. No clearance required. AP USAMUCOM.

APPI No. AP-41R-1, Grenade, Hand, Fragmentation M26A2, MPTS, 3.33" high x 2.36" OD, consisting of seven components upper body 1.62" high, 2.24" ID, .012" thick, well formed at one end .755" D x .135" deep, Lock seam formed at other end 360 degrees, Material: steel, strip, cold rolled, temp 5 finish No. 1, specification ASTM-109. Body lower 1.44" High by 2.24" ID .012" thick hole formed at one end, .995" ID for closing cap, lock seam at other end formed 360 degrees, material: steel, strip, cold rolled, temp 5 finish No. 1, specification ASTM A109 coil spiral 2.78" high by 2.22" OD spiral wrapped interior surface of coil to be notched, material wire, hard drawn 1010 finish No. QQ-W-461 alternate material-Carbon steel, cold finished 1010, to special tensile 90,000 PSI minimum ASTM-A-108, hardness after forming-Rockwell B84-98, Well 1.565" L x .565" OD .007" thick material: brass strip, alloy No. 1, .035 mm nominal grain size, annealed ASTM, B36 bushing .76" high x .75" OD flanged and internally threaded at one end other end formed .565" ID, Material-steel bar, cold finished, B113 of C 1213, ASTM A108, Alternate material: steel tube, seamless 1118, QQ-T-830. Well and bushing assembled and brazed 360 degrees, brazing filler metal Bag-1a or Bag-1, ASTM B260 and brazing flux, specification J-F-499, Cap Closing .08" high x 1.145" D, .012" thick cup formed .08" high material: steel, strip cold rolled, temp 5, finish No. 1, ASTM A109, Disc Base .93" D x .0747" high, corrugated, material-steel, strip, cold rolled, temp 5 finish No. Specification ASTM A109, Disc

base assembled into Cap Closing by brazing or welding brazing filler metal, Bag-1a or Bag-1 ASTM B260 brazing Q-F-499, Ring Retaining Lower, .32" high .99" D .02" thick flanged .15" 360 degrees. Material: steel strip, cold rolled temp 5 finish No. 1, specification ASTM A109. Coil spiral assembled into upper and lower body. Double lock seams to be formed 360 degrees to withstand an interval air pressure of 15 PSI for 10 seconds. Well assembly secured to grenade by soldering 360 degrees, use solder, metal, alloy 50A or B, tin alloy ASTM B32 and soldering paste flux, specification Q-F-506. Closure Cap assembly to bottom of grenade by soldering. Manufacturing firms bidding on this item must have a qualified engineering staff of metallurgists, chemists and tool designers to fabricate this item to applicable government specifications. Item is not considered difficult to fabricate and assemble. No clearance required. AP USAMUCOM.

APPI No. AP-46R-1, Fuze, Proximity, M532. The complete fuze weighs 1.3 lbs., is six inches long and the length of its intrusion is 2.21". The data package for this item consists of classified and unclassified drawings and specifications. The maximum classification is secret. The M532 comprises a housing (Body), an antenna, an oscillator, an amplifier, a battery, an arming mechanism, a booster, a PD trembler switch and a switch to deactivate the proximity device. The visible parts of the M532 are a plastic nose cap mounted in an aluminum ring, which is attached to the aluminum fuze base, and a steel cup (extending beyond the base) which contains the S&A device and booster. The base of the fuze screws into the nose of the projectile. The deactivating switch is manually operated by turning the nose cap of the fuze. The electronic head consists of the oscillator and amplifier. The trembler switch is in the subassembly with the amplifier. The battery plugs into the base of the electronic head. Clearance Secret required. AP USAMUCOM.

APPI No. AP-94, Container, Fiber, M105A2, M451, 1/105 mm is 31-7/8" L x 5-5/32" OD. No clearance required. AP USAMUCOM.

APPI No. AP-95, Container, Fiber, M451, 1/105mm is 38 11/16" L x 5 5/32" OD. No clearance required. AP USAMUCOM.

APPI No. AP-96, Container, Fiber, M435, 1/105mm is 40 1/2 L x 6 1/4" OD. No clearance required. AP USAMUCOM.

APPI No. AP-97, Container, Fiber, M34A1, 1/105 mm is 6 15/16" L x 5 5/32" OD. No clearance required. AP USAMUCOM.

APPI No. AP-98, Container, Fiber, M422, 1/105 mm is 40 11/16" L x 5 5/32" OD. The above containers are all constructed basically the same and are spiral wound. They are made in several sections of duplex kraft paper and in two tubes approximately 3/8" thick in accordance with specification MIL-C-2439. Outer (cover) tubes are impregnated with asphalt and has a .001 thick aluminum foil MIL-A-148 adhered between two layers of paper. Contains metal ends No. 28 gage steel with spacers and pads. Wooden separator and metal packing stop or alternate molded support assembly sometimes procured separately and provided to container producer for insertion into assembly. No clearance required. AP USAMUCOM.

APPI No. AP-99, Shell, 60mm Mortar, M49A2E1 — Is a pearlitic malleable iron casting Class 53004, Specification MIL-C-46971. Approximately 5" L and circular in a teardrop shape with a maximum OD of 2 3/8" with a .003 tolerance, and a minimum diameter at one end of approximately 1" with .020 tolerance. Both ends of the body are threaded, one end .625-18UNF-2B and the other end 1.5-12 UNF-1B. The wall thickness average approximately one-quarter inch on the finished item. The body requires hydrostatic testing at 4000 PSI, air test at 150 PSI, a magnetic particle inspection and radiographic inspection. The protective finish is olive drab paint on the exterior (.9 to 1.5 mil thickness) and a type of acid proof black paint on the interior. No clearance required. AP USAMUCOM.

APPI No. AP-100, Projectile 60mm, 111. Mortar, M83A3 — Is 10.09" long, 2.364" at the point of maximum diameter and consists of (a) a Tail Assembly (b) a Body Tube Assembly (c) Illuminant Loading Assembly (d) Parachute Assembly and a number of individual components. (a) The Tail Assembly consists of (1) the Cone, Tail made from steel, strip, 1020, Specification QQ-S-698 having a length of 3.45", maximum ID of 2.183", tapering to a minimum ID of .820" and having a wall thickness of .068", (2) Coupling fabricated from steel, bar or tube MT 1010 to MT 1030, 1110 to 1118 Fed Std No. 66 or ASTM-A-107 or A108 with an ID of 2.07", a length of .88" and an irregular OD varying from 2.180" to 2.362", (3) Adapter, Fin constructed from steel, bar or tube, 1010-1020 or 1110-1118 Fed Std No. 66 or ASTM-A107 or A108, having a length of .38", OD of .823, a flange of .94 diameter and .06" wide and having a .625 — 18 UNF-2B thread cut into the ID. Thread diameter and coupling are brazed into the tail

cone with copper braze B Cu-1 ASTM B260-627. The tail cone assembled Rockwell B-80 all over.

(b) The Body, Tube Assembly includes (1) the Tube Body made from steel tubing, seamless, CD, MT 1010 to MT 1030 Specification QQ-T-830 with a length of 6.31", ID of 2.219" and wall thickness of .056", (2) Adapter constructed from steel, MT1010 to MT 1030, 1110 to 1118, Fed Std No. 66 or ASTM-A107 or A108, having a length of .38", OD of .823, a flange of .94" diameter and .06" wide and having a .625 — 18 UNF-20 thread cut into the ID. Thread dimensions apply after assembly and plating. The adapter fin and coupling are brazed into the tail cone with copper braze B Cu-1 ASTM B260-627. The tail cone assembled Rockwell B-80 all over. (b) The Body, Tube Assembly includes (1) the Tube Body made from steel tubing, seamless, CD, MT 1010 to MT 1030, Specification QQ-T-830 with a length of 6.31", ID of 2.219" and wall thickness of .056", (2) Adapter constructed from steel, MT1010 to MT 1030, 1110 to 1118, Fed Std No. 66 or ASTM-A107 or A108 having a length of .50", OD of 2.226", a flange on one end of 2.335" diameter and .13" width and 2-20 UNS-1B thread cut into the ID. The adapter is brazed to the tube, body with silver solder, Class I, Specification QQ-S-561. (c) The Illuminant Loading Assembly consists of the (1) Illuminant Suspension Assembly which includes the (a) Sleeve made of copper or zinc plated copper, .37" long, .251" high, .170" wide and crimped on to the suspension cable which is approximately 16" long and made from preformed cable 7 x 7, 1/16" steel, Specification MIL-W-1511, (b) Disc constructed of steel, strip temper No. 1 or 2, ASTM-A109 with 2.212" diameter, .105" thickness and with a .10" diameter hole in the center, (c) Spacer, made from felt, No. 9R5, ASTM-D944, having a diameter and four equally spaced 3/16" holes located on a circle .50" from the center, (d) Plug, made from plywood, 5 ply, commercial, exterior, Grade C, back and inner ply, with a 3/8" width, 1-13/16" diameter and a 1/4" center hole counterbored to 1/2" for a depth of 3/32", and a 1/32 x 45 degrees chamfer on the edge of the counterbored face (e) End, Cable fabricated from steel, bar AISI Grades C1005-1010, C1108-1110, or B1111-1113, Specification ASTM-A107 having a length of .37", diameter of .20", a flange of diameter .50" and length of .09" and a hole drilled through the center with a diameter of .078", (2) Case, made from boxboard sheet, commercial finish, density No. 4 with a length of 3-1/32", OD of 2-11/64" and ID of 1-51/64", (3) Illuminant Composition, consisting of 36% sodium nitrate, Grade B, Class 2, Specification, MIL-S-322, 9%, laminar type A, 55% magnesium type 1, 30/50 mesh, average particle size 350 microns Specification MIL-P-14067, (4) First Fire Composition which includes 50% barium nitrate, Class A, C or D, Specification MIL-B-162, 5% laminar type B, 20% silicon, Grade 1, Class B, Specification MIL-S-230, 10% tetranitrocarbazole, Specification MIL-T-13723 and 15% zirconium hydride, technical grade, Specification MIL-Z-21353, (5) Disc, Top made from chipboard, commercial, finish No. 2, with a diameter of 2.17", thickness of .062", having a center hole of .25" diameter and 4 equally spaced .16" holes located on a circle .50" from the center, (6) Spacer, made from felt, No. 9R5, ASTM D944, having a diameter of 2.24", 3/8" thickness, center hole of .10" diameter and four equally spaced 3/16" holes located on a circle .50" from the center, (7) Disc, Quickmatch made from steel strip, temper No. 1 or 2 ASTM-A109 with a thickness of .060", diameter of 2.212", and four equally spaced holes located on a circle .50" from the center, (8) Quickmatch, type 11, Class A, Specification MIL-Q-378, 2 pieces 5" in length, (D) The Parachute Assembly consists of (1) an octagonal shaped Canopy, 15 1/2" on a side, made from parachute cloth, type D, Specification PA-PD-76, (2) 8 Shroud Lines, 3/16 x 30" long made of nylon tape or flat braid, minimum breaking strength 40 pounds. Individual components associated with the parachute assembly are the Disc Parachute fabricated from chipboard, commercial, finish density No. 2 with a 2-532" diameter and .062" thickness, Spacer, Parachute, (2 required) made of steel, strip, temper No. 2 ASTM-A109 having a length of 1.75" and a semicircular cross section of 1.10" radius, Container (2 required) constructed of boxboard, sheet, finish density No. 4 commercial, having a height of 1/2", a thickness of .021, a base in roughly the shape of a semicircle with a diameter of 2-5/32" and a notch 1/2" wide cut at the center. The tail assembly is attached to the body, tube assembly by means of four Pins, Shear, made from brass, temper 1/4 hard, ASTM B134, Alloy No. 6, which are inserted in holes drilled through the tube, body and into the coupling. The length of the pins is .13" and the diameter is .095". One end is tapered to a point at an angle of 68 degrees. The adapter and fin are closed during shipping by a Plug, Closing and Plug, Shipping respectively. Both are molded from commercial polyethylene. Manufacturing firms bidding on this item will require competent engineering and metallurgical staffs in addition to personnel familiar with the handling, blending pressing of pyrotechnic com-

APPI No. WE-110. Computer, ballistic, M13A2, P/N 8621000, principal parts are bearings, bushings, cams, circuit breaker, counter, gear assys., harness assembly, rheostat and springs; this item is considered moderately difficult to produce.

APPI No. WE-111. Drive, ballistic, M10A5, P/N 862-1333, an assembly of machined parts such as brackets, rods and links; this item is considered moderately difficult to produce.

APPI No. WE-112. Mount, periscope, M118, P/N 8619450, an assembly of machined parts such as bar, bracket and plate; this item is considered moderately difficult to produce.

APPI No. WE-113. Mount, Periscope, M119, P/N 8619585, an assembly of machined parts such as bar, bracket and plate; this item is considered moderately difficult to produce.

APPI No. WE-114. Mount, telescope, M114, P/N 857-490, an assembly of mechanical parts such as bar, brackets and plate; this item is considered moderately difficult to produce.

APPI No. WE-115. Periscope, M136, P/N 5800973 (10515850), a complex assembly of optical, mechanical and electrical parts; this item is difficult to produce.

APPI No. WE-116. Head assembly, P/N 10514220, a complex assembly of mechanical parts; this item is considered difficult to produce.

APPI No. WE-117. Control light, source P/N 862-0860, principal parts are bracket, lamp holder, resistor and knob.

APPI No. WE-118. Mount, telescope, M134, P/N 8626072, principal parts are gears, shaft, spring and level; this item is considered moderately difficult to produce.

APPI No. WE-119. Telescope, panoramic, M113, P/N 8626189, a complex assy. of gears, knobs, lens assemblies, reticle, counter and prisms; this item is considered difficult to produce.

APPI No. WE-120. Corrector, M4, P/N 8626159, an assy. of machined parts, level and springs; this part is considered moderately difficult to produce.

APPI No. WE-121. Periscope, M26, P/N 7688875, an assembly of case, mirrors and windows.

APPI No. WE-122. Post, Aiming, M10, P/N 769-2156, an assembly of tubes, point, alidade and miscellaneous parts.

APPI No. WE-123. Mount, telescope, M110, P/N 765-9765, an assy. of housing, gears, springs, worms and other mechanical parts.

APPI No. WE-124. Mount telescope, M3A1, P/N 7597736, principal parts are knob, gears and housing. This item is considered moderately difficult to produce.

APPI No. WE-125. Control, light, source, P/N 864-4351, assembly of case, clamps, cables, switch, rheostat, knob and miscellaneous parts.

APPI No. WE-126. Setter, Fire, M28, P/N 768-8626, assy. of mechanical parts such as body, bracket, insulators and dial.

APPI No. WE-127. Mount, telescope, M119, P/N 105-27950, an assembly of mechanical parts such as housing, clamp, bracket and switching circuit assembly; this item is considered moderately difficult to produce.

APPI No. WE-128. Telescope, M119, P/N 8624500, an assembly of body, lenses, prism, headrest and adjustments; this item is considered difficult to produce.

APPI No. WE-129. Periscope, M47, P/N 8599700, assembly of body and prisms; this item is considered difficult to produce.

APPI No. WE-130. Quadrant, M13A1C, P/N 828-6737, an assembly of mechanical parts including housing, level, scale, knob, worm, springs, bushing and dial; this item is considered moderately difficult to produce.

APPI No. WE-131. Mount, telescope, tank, P/N 105-13360, an assembly of mechanical parts such as housing, brackets, rods and arms; this item is considered moderately difficult to produce.

APPI No. WE-132. Periscope, M27, P/N 7633132, principal parts are case, mirrors and plastic parts.

APPI No. WE-133. Quadrant, M4A1, P/N 7597761, principal parts are worm and gear, knobs, micrometer, springs, bearings, shaft and scales; this item is considered moderately difficult to produce.

APPI No. WE-134. Telescope, M90F, P/N 820-5096, principal parts are eyepiece, lenses, prism and body.

APPI No. WE-135. Head assembly, P/N 7688707, principal parts are prism, machined head and plates; this item is considered moderately difficult to produce.

APPI No. WE-136. Case, carrying, M81, P/N 764-02951, principal parts are steel body, pods, latch and strap.

APPI No. WE-137. Periscope, tank, XM44, P/N 821-6000, a complicated assy. of machined and optical parts; this item is considered difficult to produce.

APPI No. WE-138. Periscope, M48, P/N 10516700, principal parts are body, head, lenses, prisms; this item is considered difficult to make.

APPI No. WE-139. Case, carrying, P/N 8247245, a watertight steel case with lid, hinges and gaskets.

APPI No. WE-140. Plunger, Slide Stop, P/N 501-3193, a small arms part. A screw machine part made of carbon steel. Heat treatment is required. FSN 1005-501-3193. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-141. Spring, Plunger, P/N 5013194, a small arms part. Coiled music wire spring .593 inches long. Stress relieving is required. FSN 1005-501-3194. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-142. Plunger, Safety Lock, P/N 5013195, a small arms part. A screw machine part made of carbon steel. Heat treatment is required. FSN 1005-501-3195. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-143. Sight, Rear, P/N 5013196, a small arms part. This part is made of carbon steel bar. FSN 1005-501-3196. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-144. Sight, Front, P/N 5013197, a small arms part. This part is made of strip steel. FSN 1005-501-3197. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-145. Link Barrel, P/N 5013198, a small arms part. Made of carbon steel. Heat treatment is required. FSN 1005-501-3198. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-146. Spring, Recoil, P/N 5013200, a small arms part. Music wire spring approximately 6.5 inches long. Stress relieving is required. FSN 1005-501-3200. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-147. Plug, Recoil Spring, P/N 501-3201, a small arms part. A screw machined part made of carbon steel. FSN 1005-501-3201. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-148. Spring, Firing Pin, P/N 501-3204, a small arms part. Music wire coil spring 1.70 inches long. Stress relieving is required. FSN 1005-501-3204. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-149. Stop, Firing Pin, P/N 50132-05, a small arms part. A machined carbon steel part. Heat treatment is required. FSN 1005-501-3205. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-150. Mainspring, P/N 5013208, a small arms part. Music wire coiled spring 2.156 inches long. Stress relieving is required. FSN 1005-501-3208. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-151. Pin, Mainspring, Housing, P/N 5013212, a small arms part. Approximately .76 inches long, made of tool steel drill rod. Heat treatment is required. FSN 1005-501-3212. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-152. Retainer, Housing, Pin P/N 5013213, a small arms part. A screw machine part made of carbon steel. Heat treatment is required. FSN 1005-501-3213. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-153. Loop Lanyard, P/N 5013214, a small arms part. This part is made of carbon steel bar stock. FSN 1005-501-3214. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-154. Spring, Magazine Catch, P/N 5013217, a small arms part. Approximately 3/4 inches long, music wire, stress relieved. FSN 1005-501-3217. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-155. Lock, Magazine Catch, P/N 5013218, a small arms part. A machined carbon steel part. Heat treatment is required. FSN 1005-501-3218. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-156. Lock Safety, P/N 5503840, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-550-3840. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-157. Magazine Assembly, P/N 550-8694, a small arms part. Consists of coil spring, tube and strip steel parts. FSN 1005-550-8694. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-158. Housing, Mainspring, Assembly, P/N 5564058, a small arms part. Consists of three machined parts made of carbon steel. FSN 1005-556-4058. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-159. Stock, Right Hand, Plastic, P/N 5564062, a small arms part. A moulded phenolic plastic part. FSN 1005-556-4062. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-160. Stock, Left Hand, Plastic, P/N 5564063, a small arms part. A moulded phenolic plastic part. FSN 1005-556-4063. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-161. Rod, Cleaning, M4, P/N 556-4102, a small arms part. This part is made of hard drawn, coil finished, carbon steel bar. FSN 1005-556-4102. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-162. Link, Barrel, P/N 7267771, a small arms part. A small blanked and finished part made of carbon steel. Heat treatment is required. FSN 1005-586-0774. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-163. Link, Barrel, P/N 7267772, a small arms part. A small blanked and finished part made of carbon steel. Heat treatment is required. FSN 1005-586-0776. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-164. Link, Barrel, P/N 7267773, a small arms part. A small blanked and finished part made of carbon steel. Heat treatment is required. FSN 1005-586-0777. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-165. Sight Front, P/N 7268316, a small arms part. This part is made of steel by precision casting process. Sample radiographic inspection is required. FSN 1005-586-0777. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-166. Sear, P/N 7268068, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-592-9974. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-167. Tube, Plunger, P/N 6008594, a small arms part. A machined part made of carbon steel. FSN 1005-600-8594. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-168. Stop, Slide, P/N 6008595, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-600-8595. No security clearance is required to obtain USAWECOM APPI.

APPI No. WE-169. Bushing, Barrel, P/N 6008596, a small arms part. Part is made of wrought steel or cast steel. Heat treating and sample radiographic tests are required. FSN 1005-600-0596. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-170. Guide, Recoil Spring, P/N 6008597, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-600-8597. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-171. Extractor, P/N 6008598, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-600-8598. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-172. Pin, Firing, P/N 6008599, a small arms part. Machined part made of carbon steel. Heat treatment is required. FSN 1005-600-8599. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-173. Strut, Hammer, P/N 6008600, a small arms part. This part is made from carbon steel spring strip. Heat treatment is required. FSN 1005-600-8600. No security clearance is required to obtain USAWECOM APPI.

APPI No. WE-174. Spring, Sear, P/N 6008602, a small arms part. A formed part made of carbon steel spring strip. Heat treating is required. FSN 1005-600-8602. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-175. Disconnecter, P/N 6008603, a small arms part. This part is machined from carbon steel. Heat treatment is required. FSN 1005-600-8603. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-176. Catch, Magazine, P/N 600-8609, a small arms part. This part is made of carbon steel. Heat treating is required. FSN 1005-600-8609. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-177. Bushing, Stock Screw P/N 6019022, a small arms part. This part is machined from carbon steel. FSN 1005-601-6022. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-178. Trigger Assembly, P/N 614-7780, a small arms part. An assembly of a carbon steel part and a low carbon strip steel part. Heat treating is required. FSN 1005-614-7780. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-179. Stock, Right Hand, Wood, P/N 7790349, a small arms part. Made from black walnut. FSN 1005-649-9271. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-180. Stock, Left Hand, Wood, P/N 7790350, a small arms part. Made from black walnut. FSN 1005-649-9272. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-181. Safety Grip, P/N 6501828, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-650-1828. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-182. Barrel for 45 Caliber Pistol, P/N 7791193, a small arms part. This part is machined from alloy steel bar. Rifling, chromium plating, proof firing and magnetic particle inspection are required. FSN 1005-722-3849. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-183. Link, Barrel, P/N 7790893, a small arms part. This part is machined from carbon steel. Heat treatment is required. FSN 1005-751-9109. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-184. Trigger Assembly, Long, P/N 7791047, a small arms part. Consists of an aluminum investment casting with a strip steel part and a nylock set screw. FSN 1005-798-7578. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-185. Trigger Assembly, Short, P/N 7791048, a small arms part. Consists of an aluminum investment casting and a nylock set screw. FSN 1005-798-7579. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-186. Sight, Rear, Adjustable, P/N 11010180, a small arms part. Made in accordance with specification control drawing. FSN 1005-809-7964. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-187. Slide Assembly, P/N 7790353, a small arms part. This is an assembly of three parts. The principal part, the slide is machined from alloy steel bar, FSN 1005-876-4033. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-188. Ejector, P/N 11010485, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-903-8192. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-189. Barrel and Bushing Assembly, P/N 7791469, a small arms part. This consists of a barrel and a fitted bushing. The barrel is made of alloy steel bar. Rifling, chromium plating, proof firing and magnetic particle inspection are required. FSN 1005-976-9244. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-190. Hammer, P/N 7790803, a small arms part. Machined of carbon steel. Heat treatment is required. FSN 1005-980-1743. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-191. Slide, P/N 7791435, a small arms part. This part is a machined alloy steel forging. Heat treatment is required. FSN 1005-987-8948. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-192. Screw, Stock, P/N 6019023, a small arms part. A heat treated carbon steel screw. FSN 5305-601-9023. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-193. Telescope, Elbow, M1186, P/N 10512985. This item is considered difficult to produce. FSN 1240-819-4520. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-194. Panel Assembly, P/N 8589730. Consists of case, rheostat, knobs, switch, lamps and etc. FSN 1240-915-5725. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-195. Cover, P/N 8293769. Consists of aluminum bronze castings, latch, spring, gasket and etc. FSN 1290-300-8034. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-196. Indicator Assembly, Azimuth, P/N 10954720. An assembly of housing, gears, shafts, dials, springs and other parts. This item is considered moderately difficult to produce. FSN 1290-901-8667. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-197. Periscope, M37, P/N 8635100. Consists of case, rheostat, knobs, switch, lamps and etc. FSN 1240-915-5725. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-198. Light, Aiming Post, P/N 7629136. An assembly of case, switch, lamp, reflector and etc. FSN 1290-769-2136. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-199. Fuse Setter, M27, P/N 764-7761. A hand wrench-type instrument consisting of a bronze casting with a pinned steel catch. FSN 1290-764-7761. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-200. Periscope, M23, P/N 7633306. A sealed optical instrument consisting of housing, an optical system with two windows a 90° prism and a mirror. FSN 1240-344-4644. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-201. Telescope, Elbow, M164ID, P/N 7597781. Principal parts consist of lenses, prism, reticle and eyepiece assembly. This item is considered moderately difficult to produce. FSN 1240-759-7781. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-202. Telescope, M114, P/N 8626440. An assembly of body, lenses, prism and etc. This

item is considered moderately difficult to produce. FSN 1240-963-0839. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-203. Periscope, M34, P/N 5800971. This consists of metal case, P/N 10515788 and periscope, P/N 8619700. The periscope is an assembly of lenses, prisms, adjustments, scales etc. This is considered moderately difficult to produce. FSN 1240-794-2537. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-204. Separator, oil and water, spray gun with two regulators and four outlets, wall mounted. In accordance with MIL-S-12928, Class 2. FSN 4940-242-4101. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-205. Heater, Gun Type, Electric. A hand held device to apply a steady flow of air and heater air. Air flow 28 CFM, 115 V AC and DC. In accordance with MIL-H-45193. FSN 4940-785-1162. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-206. Regulator, Oxygen, Single Stage, 0-75PSI delivery pressure, 700 CFH, two pressure gages. In accordance with MIL-R-13877, Class III. FSN 6580-281-8193. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-207. Mount Periscope, P/N 1051-3443. An assembly of small mechanical parts. FSN 6650-906-7944. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-61-R1. Brush Assembly, 40mm, P/N 7790665. Cleaning brush for M79 Launcher, Grenade, Chumkin (or hair) and wire bristles held in crimped steel holder, with plastic core. FSN 1010-474-5466. No security clearance required to obtain USAWECOM APPI.

APPI No. AV-129. Piston, Swivel Indicator, Aircraft Landing Gear. Application, CH-47 Acft. In accordance with procurement Package No. 114L-2155-3. FSN 1620-076-9048. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-130. Indicator Assembly, Slick Position Housing. Application CH-47 Acft. In accordance with Procurement Package No. 114C1155. FSN 1680-070-6775. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-131. Actuator, Electro-Mechanical, Rotary. Application, CH-47 Acft. Vertol P/N 114PS-201-1 and Barber Coleman P/N NYLC-7559-2 is only identification. FSN 1680-739-2629. Procurement Package No. 114PS201-1. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-132. Bearing, Ball, Annular, Underground; double row; angular contact; nonloading groove; self-contained; both rings flush; 8.999 to 9.000 in. bore dia., outside dia., 10.249 to 10.250 in. O.O., width, 1.105 to 1.125 in O/A., retainer type, pressed construction, steel; ABEC 5 tolerances; internal fit-up, no preload requirement, inwardly convergent contact angle, over 25 deg. angularity. Appl., Swasplate, Helicopter, UH-1, FSN 1615-446-6386. Procurement Package No. 204-011-430-1. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-133. Filter, Fluid Pressure. Application, UH-1 Acft. In accordance with procurement Package No. 204-040-760-5. FSN 2915-011-1518. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-134. Camper, Viscous, Application, CH-47 Acft. In accordance with Procurement Package No. 114CS110-2. FSN 1680-780-5284. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-135. Kit, Plexiglass Repair, Aircraft. Contains three thicknesses of plexiglass (0.060, 0.125, 0.250) in. 6 by 12 in. sheets conforming to MIL-P-5425, Finish B, from which to cut repair plugs or patches. Also contains all necessary application materials which consist of 1 qt CD-2 cement, 2 catalyst capsules, 1 pc 18 by 24 in. flannellette cloth, 1 roll 2 in. wide Y9017 tape and one illustrated folder No. PL-24. The catalyst capsules to be dropped into the cement on initial use of the cement, thus prolonging shelf life to approximately one year. The tape has special type adhesive which will not affect plexiglass. The unused portions of materials to be returned to the kit for future needs. No material in the kit is replenishable. Applicable Military Specification, MIL-P-5424B, W/Amendment 2. QPL Item No. 5425-6 dtd 10 Aug 62. Interested concerns contact U. S. Naval Air Experimental Station, Naval Air Base, Philadelphia, Pa., to have their product tested and qualified. FSN 1560-620-4227. No clearance required to receive APPI. USAAVCOM.

APPI No. MI-62RI. Optical Receiver/Decoder, as defined by Missile Interim Specification MIS-10138, dated 13 April 1966. This item is used to precede serially digital command information and provides analog output voltage to target missile auto pilot systems. This receiver controls target missiles in flight. No Federal Stock Number Assigned. No clearance required to obtain APPI. USAMICOM.

APPI No. MI-63RI. High Radar Anti Jamming Inverter. Released for supply. Additional information on Electric Control System Stock Number assigned to obtain APPI. USAMICOM.

APPI No. MI-68. Overpack, MISSILE SYSTEM. Structure consists of a wooden box, with 3 sets of wooden cleats for suspension of saddles and 2 Polycarbonate plates at both ends of the thick plywood platen. No Federal Stock Number Assigned. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. MI-69. Control Surface. MISSILE SYSTEM. Two position, lithium gas operated actuators drive surfaces. Extension of the control surface in the dwell time of the stroke achieves the effect of surface deflection without the need of additional deflection actuators. No Federal Stock Number Assigned. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. ME-SRI REVISION. Arc Generator Type; Gasoline Engine. DC arc; Skid Mt; 50 amp at 400 amp at 30 volt maximum. Military power output rated at 1.5 60 cycles, single phase; furnished electrode lead with electrode holder work lead with ground clamp. Dwg No. DL 13205E400. FSN security clearance required to obtain APPI. MEC.

APPI No. ME-6. Set, P/N 114PS-201-1 and Barber Coleman P/N NYLC-7559-2 is only identification. FSN 1680-739-2629. Procurement Package No. 114PS201-1. No clearance required to receive APPI. USAAVCOM.

APPI No. ME-103. Detecting Set Mounted; Aural and Visual Indication operating power. Detecting set is a mine detector mounted on a carriage box assembly containing assembly; front end steering, balance assembly; control panel assembly; indicator assembly. Shall be furnished in accordance with the necessary Supplier's manual and the necessary electronic system plus other vehicle required in order to mount the mine detecting set is intended for use of terrain, streams, and salt water location of buried metallic landmine and land mines. In accordance with MIL-D-51162 and Owg No. DL 13205E400. FSN security clearance required to obtain APPI. USAMEC.

APPI No. ME-104. Air Conditioner. 60,000 BTU/HR, Gasoline Engine Mounted. This is a self contained driven 36,000 to 60,000 Btu/hr air conditioner mounted and furnished with sections of 15 inch diameter flexible ducting shall withstand cross currents out damage of failure. Air conditioner no damage or irregular operation in rain, salt fog, and to a temperature and 95% relative humidity. Refrigerant shall be vapor cycle type employing forming to BB-C-310, type 22, and shall be equipped with an open air cooled condenser, a gasoline generator with a 27 volt DC electrical conditioner shall be driven by a military design 20 HP engine. FSN 2805-872-5972, and shall be government furnished chassis trailer, wheel, M580, Ord SK No. 8736417, are intended to provide cooling for communications, surveillance, target control data processing and other systems in locations where inadequate air conditioning is available, for emergency use, or for temporary applications and those who did not anticipate cooling needs. In accordance with MIL-A-52526 and Dwg No. DL 13205E400. FSN security clearance required to obtain APPI. USAMEC.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Dec. 6, 1966 page 2 Nö. PSA 4200 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

This item is a reprint of a revision in a previous issue.

APPI No. AP-12 Rev I. Loaded Item—Cap, Blast- ing, Elec, M6, procured loaded, consists of five (5) components and/or assemblies, plug assy 1.015" X 0.219 O.D. molded around lead wire 145" long. Material, plug, rubber; wire, type 8, AW622, soft, tin coated; alternate, rubber and sulfur plug assembly, with cast sulfur plug. Bridge wire connecting one end of lead wires, resistance 180 OHMS per ft., cup 2.29" X .242" O.D. X .222" I.D., base .020" thick, Al alloy, sheet, temper 0; spool 4.95" X .416" X .04" wall, slotted one end, box board, convoluted, with flour paste between layers; alternate kraft pulp paper unsized .003" thick. Charge cup load with RDX base charge, lead azide intermediate charge and ignition charge. Requires technical staff familiar with pyrotechnics and explosive loading and necessary loading facilities. Difficult to produce to applicable specs. No clearance required to receive APPI, APSA-USAMUCOM.

This item is a reprint of a revision in a previous issue.

APPI No. AP-18 Rev I Ammunition Item—XM151 Warhead Metal Parts Assembly, approximately 13.03 inches long by 2.74 inches maximum outside diameter. Consists of three components, nose, 10.40 inches long by 2.79 inches outside diameter at the bourrelet tapers down to 1.68 inches through a 35-inch radius on the ogive beginning 4 inches from the base, material pearlitic malleable iron, grade 60003; base, 3.005 inches long by 2.40 inches outside diameter, cup shaped, material, steel plate or steel bar, hot rolled or pearlitic malleable iron, grade 45010, 50007 or 60003; cap, protector, .932 inches long by 1.844 inches maximum diameter at flange, cup shaped, material, polyethylene. Considered difficult to manufacture. No clearance required to receive APPI, AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-19. Ammunition Item—Fuze, rocket XM423 metal parts with Detonator MK59, model O with primer XM94E1 with booster MPTS, 4.035 inches maximum length by 1.75 inch diameter. Consists of five (5) major components: striker, pin body assembly, material, aluminum, alloy, 2024, temper T351, Rod; firing pin body assembly, material, aluminum alloy; device, safety and arming, consists of 33 metal parts such as gears, pinions, springs and rotors; screw sealing disc, material, aluminum, alloy 2024; housing booster, about 1.115 inches long by varying outside dimensions, material, carbon steel bar, hot-rolled. Manufacturing firms bidding this item will require highly competent staff of engineers, metallurgists, chemists and tool design engineers. Item considered difficult to produce. No clearance required to receive APPI, AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-51. Ammunition Item—Rocket Motor, 66mm, M54, approximately 1-1/2" diameter by 10" long, aluminum alloy extrusion, six integral fins on nozzle to attach six folding fins. Consists of 20 components shown on (6) ordnance drawings with (11) applicable specifications. Requires machining, drilling, reaming, milling, threading, heat and surface treatment. Competent technical staff required. Item is difficult to produce to government specifications. No clearance required to receive APPI, AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-53. Ammunition Item—Warhead, 66mm, rocket, HE, M18, approx 2-3/8" dia x 9" long. Body head approx 3.10" long x 2.568" dia at large end x 1.129" dia. at small end; material, steel strip FC10009, FSI015 to FSI020, cold rolled and annealed, temper No. 5, finish No. 1 or No. 2, Spec QQ-S-640. Ogive approx 5.79" long x 2.598" dia large end x 1.262" small end; material aluminum alloy sheet, 3003-0, ASTM B209, .070" to .027" thick. Liner approx 3.129" L x 2.604" D, conical shaped, .039" wall thickness; material, copper strip, cold rolled, soft annealed, ASTM B152. Body head and ogive shrunk fit and crimped. Insulator approx .33" x .986"; material, molding plastic and molded plastic parts, thermo-setting, type CFG, Spec MIL-M-14, Conduit approx 9.43" L x .098" O.D. and .065" I.D. material, tubing, brass, No. 3 alloy,

ASTM B135. Connector insulator, approx .135" D at large end x .085" I.D. at small end; material, brass strip, composition 1, spring temper, Spec QQ-B-613. Gasket nose, approx .860" I.D. x .125" O.D. x .003" thick; material, gasket, class B, Spec MIL-P-5516, screw insulator No 2 x 1/4" long, type B, style, Spec FF-S-107, conduit soldered to link, shrink fit head body to liner. Requires competent technical staff and is difficult to manufacture to applicable specifications. No clearance required to receive APPI, AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-54. Ammunition Item—Closure for rocket, 66mm, AT, M72, MFD per Specs MIL-A-2550, MIL-STD-8, MIL-STD-9, MIL-STD-10. Material high strength extruded aluminum alloy, 294" overall length x 1.84" D at mouth extending .65", receding 60 degrees base to 1.47" D cylinder, extending 2.29" mouth beveled, modified buttress thread, 1.54" pitch diameter. Inside of cylinder has opening recessed diameter of 1.28" extending .76" with two .065" wide grooves of diameter 1.33". Recessed section also has two holes .10 inch diameter, countersink diametrically opposed to each other. Item is hydrotested. Competent technical staff is required and is difficult to manufacture to applicable specifications. No clearance required to receive APPI, AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-55. Ammunition Item—Launcher, rocket, 66mm, M72, 34-1/4" long x approx 4"D consisting of approx 170 components. Inner tube 14" x 2.645" to 2.784" O.D., approx .050" wall; material aluminum alloy extruded, 6061-T6 Spec ASTM B 221. Firing pin housing assembly approx 4" L x .76" D at forward end and 1.14" D at rear end; material aluminum die cast, composition 11, Spec QQ-A-591; outer tube approx 24" L x 2.677" D x .052" wall thickness; material, filament wound epoxy tubing. Requires highly competent technical staff and is extremely difficult to manufacture per applicable specifications. No clearance required to receive APPI, AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-62. Ammunition Item—Projectile 8" HE M105 projectile body approximately 32 inch length by 8 inch diameter one piece design assembly consists of three components, body copper, rotating band and base plate. Body is fabricated by hot-foam-heat-treat or hot cup-cold draw process material specification steel ASTM-A-273 or MIL-S-10520. Rotating band copper base plate approximately .032 inch thick material steel. Assembles to base of shell by resistance welding assembly is phosphate coated and painted. This item is considered very difficult to manufacture in accordance with applicable specifications. No clearance required to receive APPI, AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-78. Classified. Fuze, Grenade, M217. Confidential clearance required to receive APPI.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-45. Ammunition Item—Projectile, HEAT-FS, 90mm, M371E1, MPTS, Assy 14.47 inch long x 3.58 inch dia. 13 components. Major components: body, 6.46 inch long x 3.54 inch OD, tapered nose, 3.5 inch ID, tapered wall thickness, knurled rotating band seat, thread both ends, aluminum alloy. Rotating band, rigid polyvinyl. Adapter, aluminum alloy, truncated cone shape, counter-bored and threaded top and bottom. Cone, sheet copper. Spike, steel, 6.7 inch long x 3.88 inch bell-mouth dia. Fin, aluminum alloy, 12.53 inch long x 3.5 inch dia. six webs with T-shaped lugs, internal thread in fin base and external thread opposite end. Other components include conduit, nose cap, insulator and wire lead. Manufacturer requires engineers, metallurgists. Item considered extremely difficult to produce. No clearance required to receive APPI, AP-USAMUCOM.

This item of APPI was previously published and is now cancelled.

APPI No. AP-57. Skid, launching, demolition charge, M3 parts and assembly consists of approximately 296 drawings and various sub-assemblies, skid hull, 135" L x 57-3/8" W x 22-1/4" H, wall thickness 5/8" - 1-13/16" external ribs and side rails, fibreglass cloth outer side, fibreglass mats, woven cloth, impregnating resin thermosetting, polyester, gel cast-thermo setting polyester type, olive drab, finish hull to be waterproof; skid panel cover, varying thickness, 112.9" L x 54" W, same as above, machined aluminum metal parts, 2024-T4 and 6061-T6, plates, tubes, bars extrusions, steel C1020 and 4130. Electrical control system is complicated. Competent staff welding, electrical and mechanical engineers, metallurgists and tool design engineers will be required. Item extremely difficult to produce per applicable specs and drawings. No clearance required to obtain APPI, AP-USAMUCOM.

This item of APPI was previously published and is now cancelled.

APPI No. AP-58. Fuze, Demo kit 1134 w/detona- tor, electric, M36A1, complete assy approximately 3-3/8" D x 5-5/8" L and consists of approximately 50 different components, center tube 3-1/2" D x 5-5/8" L, aluminum base alloy, sand casting specification QQ-A-601 or die cast, A360, specification QQ-A-591, container, 3-1/2" OD x 3-1/32" ID x 4-1/4" L counterbored ends, aluminum alloy tube 6061, ASTM-B210; rotor, "U", shape, 2.7" L x 1.27" R x 1/2" thick, aluminum 2024-T4, retainer rotor, 3" D x 3/16" thick w/one inch hole, 2024-T4 aluminum; guide arming, 9/16" D x 1.6" with slots, brass rod ASTM-B16; block terminal lower, 2" L x 5/16" W x .52" H with holes, counterbores and threads, plastic, specification L-P-310, nut, 1.63" D x .20" thick x 1" L aluminum 2024-T4, ASTM-B209; various springs, pins, plates, spacers, nuts, washers, bushings and electrical components; many aluminum parts require anodine treatment, steel components require zinc and cadmium plating, all require salt spray tests, waterproof tests etc. Manufacturers should have a highly competent technical staff for metal working processes. Item extremely difficult to produce to applicable drawings and specifications. No clearance required to obtain APPI, AP-USAMUCOM.

This item of APPI was previously published and is now cancelled.

APPI No. AP-59. Rocket motor M95. MPTS, as- sembled is approximately 35" L x 12" W. Consists of motor body assy of tubing threaded, of hot rolled steel plate, FS4130, 29" L x 6" O.D. x 5.7" I.D. Adapter boss of 4130 cold steel alloy tack-welded to closed end; manifold complicated chamber, approximately 6" D x 5" L, screws onto motor body, steel QQ-S-681, class 80-50, manifold and body must withstand internal hydrostatic pressure of 3,500 PSI 10 seconds; nozzle 1.89" D x 2.9" L taper bored, threaded OD 1.31" L, steel bar 1117-1137, ASTM A108; front trap assy components 1020 steel fabricated by welding; rear trap three prong spider, threaded, steel QQ-S-681, class 65-35 or bar steel 1030-1040 ASTM-A-107. Requires competent technical staff and is difficult to produce. No clearance required to obtain APPI, AP-USAMUCOM.

APPI No. AP-104. Cap Blastign Special Non-Elec- tric M7. Aluminum alloy cup 2.35" L x .25" OD loaded with 14.5 grain RDX, 3.7 grains dextrinated lead azide and 1/2 grain lead stypnate. Explosives are compressed into the aluminum cup and capped with an aluminum alloy ferrule. Packed 6 per paper-board carton, one carton in a waterproof bag, 50 bags per fiberboard box and 12 boxes per wooden box. This item requires isolated loading facilities since the explosive used in this item is extremely sensitive and will detonate unless special precautions are used in handling and loading. No clearance required to receive APPI, AP-USAMUCOM.

APPI No. EA-32. Cartridge, 40-MM, Riot Control, CS, E24. The E24, 40-MM, CS riot control cartridge consists primarily of an extruded aluminum alloy barrel housing a molded synthetic rubber body assembly containing CS riot control mixture with quickmatch. It is approximately 9 inches long by 1-1/2 inches in diameter and weighs about 12 ounces.

An extruded aluminum alloy firing cap containing a steel firing pin is attached to the muzzle end of the barrel by pressure-sensitive tape. A plastic launcher adapter is positioned around the primer end of the barrel. The primer end contains a threaded aluminum holder containing a primer and a black powder charge. The charge is held in place by pressure-sensitive tape.

An aluminum alloy sleeve containing the pelletized delay mixture and the first-fire mixture is inserted into the neck of the molded synthetic rubber body and held secure by two steel retaining rings. Sealing compound is applied to the surface of the sleeve and the first-fire mixture to keep all the mixtures within the sleeve dry. A molded polyethylene spacer acting as a gas retaining seal fits over the neck of the body assembly and supports it inside the barrel. A felt pad protects the muzzle end of the body assembly during transportation.

Currently the molded synthetic rubber body is available only from the U. S. Rubber Company. However, a Government mold and rubber formula will be made available for future buys.

No security clearance is required to obtain APPI, EA-USAMUCOM.

APPI No. MI-70. Adapter and Stowage Kit, M274 Vehicle. Adaption hardware for mounting the TOW SYSTEM on the M274 (Mule) Vehicle has existed for some time and considerable testing has been accomplished. The adapter kit consists of the following items: Two saddles clamped across the bed support 5 spare rounds which are held in by quick-release metal bands. The Tripod carried crosswise of the vehicle forward of the spare rounds held by a quick-release metal band and coupling flange. A pallet supporting a pedestal mounting the traverse unit, a coupling ring for the traverse unit, and a support for the electronic unit. No Federal Stock Number assigned. Confidential clearance required to obtain APPI, USAMICOM.

sol. multi-purpose. Model SF-15-MD/CIED (FSN 6115-889-1370). The main circulating pump shall be of the positive displacement type and should be mounted either vertically or horizontally and shall have a capacity of not less than 100 gallons per minute. Heater shall be equipped with lifting and tie down attachments. Heater is intended to be used to heat and circulate mix asphalt plant (100-150 tph) or 2 asphalt mixers (750 gph each). In accordance with MIL-11-52213. FSN 3895-956-8916. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-106. PAVING MACHINE. BITUMINOUS MATERIAL: Crawler Mounted, Gasoline Engine Driven. Paver shall be self propelled and crawler mounted and shall lay, compact, and finish bituminous concrete from 1/4 inch thick to 6 inches thick at all widths specified herein, on level ground and up and down grades from 0 to 10 percent. The bituminous slip laid shall be laterally and longitudinally smooth within a tolerance of plus or minus 1/8 inch measured with a 12-foot straight edge. The paver shall lay a basic 10-foot width without screen extensions or cutoff shoes. shall be extendable to a paving width of either 12 feet or 14 feet by adding screed extensions, and shall be reducible to an 8-foot width by the use of cutoff shoes. The industrial type gasoline engine, including a fuel tank of a capacity of not less than 8 hours load operation, an electric cranking system, housing, a 40 ampere battery charging generator and an instrument panel, should conform to MIL-E-11275, Group II. Paver should be provided with not less than 8 paving speeds ranging from 9 fpm to 60 fpm, maximum forward and reverse travel speeds shall be not less than 190 fpm. Receiving hopper shall have a capacity of not less than 4-1/2 cu. yd. and shall receive material from dump trucks. Paver shall be provided with a low pressure air type, diesel fuel burner(s), a fuel tank (5 gal capacity), a fuel pump, an air blower, a fuel sediment bowl and fuel lines should be provided with the burner. Six floodlamps and mounting brackets conforming to MIL-L-13071 shall be installed. Paver shall be equipped with lifting and tie down attachments. Paver is intended to receive mixed bituminous material from trucks and to lay the bituminous material for road and airfield construction. In accordance with MIL-P-335. FSN 3895-190-3313. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-107. PRESS. TRACK PIN AND BUSHING. HYDRAULIC. WHEEL MOUNTED, GASOLINE ENGINE DRIVEN: Track press shall consist of a gasoline engine, hydraulic pump, hydraulic cylinder, press table with retractable or stationary jaws, ram cap or tool holder, power track wrench, winch, track indexer, servicing tools, conveyors, and accessory equipment to form a complete unit which shall operate to remove and install track pins and track bushings on crawler type tractors. Track press shall be spring mounted on a single axle, 2 wheel trailer which shall form an integral part of the track press. The overall dimensions of the track press, complete with running gear and lunette eye, shall not exceed 15 feet in length, 7 1/2 feet in width, and 5 feet 4 inches in height. Total weight, including fuel, lubricating oil, and hydraulic oil but excluding tools and adaptors, shall not exceed 6500 pounds. The track press shall push one pin and one bushing from the same link simultaneously with one stroke of the ram by employing a method of disassembly that will eliminate pushing bushings all the way through the slide links. Industrial type gas engine shall be of the air cooled type and shall include a fuel tank which has a capacity for not less than 4 hours operation with means for connecting to an auxiliary fuel supply, a 24 volt electric cranking system, all conforming to MIL-E-11275, Group II. The hydraulic system shall produce a ram force of not less than 125 tons. The track press should be equipped with a hydraulically powered winch that is operated in either direction of rotation, and shall develop a torque of not less than 700 foot-pounds with a 1 inch square socket drive. A hydraulically operated cable winch shall be provided for pulling the complete tracks over roller beds into position for work. Four sections of roller type conveyors, each not less than 8 feet long shall be furnished. Two 32 candlepower, 24 volt floodlights shall be furnished. Unless otherwise specified, tools shall be provided for removing and installing pins and bushings on tracks of various types of tractors. Track press shall make and models a prime mover at an average speed of towed by a 35 mph on paved roads, including speeds of 40 mph for short periods and at speeds up to 20 mph on unpaved roads, with no swaying or yawing. Lifting and tie down attachments shall be provided. One or more chests constructed in accordance with MIL-C-12044 shall be furnished to carry the operating tools. Track press is intended for use by personnel engaged in the maintenance and repair of crawler type tractors. In accordance with MIL-P-11934. FSN 4940-801-7627. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-108. DISTRIBUTOR. WATER. TANK. 1000 GALLON CAPACITY. TRUCK MOUNTED: Distributor shall consist of a tank, a gasoline engine driven water pump, a spray bar, and the necessary controls, piping, and safety and warning devices. Shall be mounted on a Government furnished military 5 ton, 6 by 6 M61-A2, truck chassis, with personnel heater, and defroster, slave receptacle kit, and without winch in accordance with MIL-T-740. Each tank shall be an electrical steel cylinder and shall be fabricated from hot dipped or electric plated, zinc coated, steel sheets or from steel sheets with all interior surfaces treated with three coats of vinyl resin lacquer. Distributor shall be provided with a pump unit conforming to MIL-P-10360, Type I, size 4, Class A and driven by a gasoline engine conforming to MIL-E-22680, engine shall be furnished complete with all accessories required for operation. The water distributor is primarily intended for use in soil stabilization and soil compaction operations requiring the accurate distribution of water at predetermined rates. Distributors can also be used for transporting or transferring water, for application of water for dust alleviation, for summ pumping, for washing equipment, and as auxiliary fire fighting equipment. In accordance with MIL-D-13487. FSN 3825-275-2622. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-109. TRUCK. LIFT FORK: Diesel. Pneumatic Tire. All Purpose. Rough Terrain, 10,000 Pound Capacity at 24 inch load center. The forklift truck shall be diesel engine driven and operator selected 2 and 4 wheel steer. Truck shall have a center pivot mounted oscillating frame and a hydraulic powered forklift mechanism with a capacity of lifting 10,000 pounds at a 24 inch load center (rated load) to a height of 144 inches. Truck shall be capable of traversing rough terrain, fording water to a depth of 5 feet without kit, and being transported by air and rail. Truck shall perform all required operations without failure, permanent deformation, malfunction, or damage to any components or structural member. When specified, the truck shall be winterized for operation in ambient temperatures to minus 50 degrees F. All parts, assemblies, and components of winterized trucks, including internal seals, cables, belts, and hoses, shall be identical to those used on non-winterized trucks except for winterization items, accessories, and components. Unless otherwise specified, an industrial type diesel engine shall be furnished complete with all accessories and shall conform to MIL-E-11276. The truck shall be provided with lifting and tie down attachments. The truck is intended for use as a materials handling, forklift truck with a capability of unloading, transporting, and loading boxes, containers, and palletized loads up to 10,000 pounds. The mobility of the truck with and without payload is intended to cover working areas where high flotation and traction characteristics are required. The truck is also intended to operate and be compatible with hydraulic crane and snowplow attachments. In accordance with MIL-T-21864. FSN 3930-073-8750. No security clearance required to obtain APPI. USAMEC.

APPI No. WE-208. Aiming Circle. An optical instrument consisting of a telescope mounted on a mechanical base, which is used to aim and limit the movement of vehicles and is used to measure the distance between points. This complex fire control instrument is considered difficult to manufacture. No security clearance is required to obtain this APPI.

APPI No. WE-209. Binocular Infra-red M18. A hand-held infra-red instrument designed for night use. It is similar in appearance to a conventional binocular but contains a battery operated, high-voltage power source, an image detector tube, and complex optical components. Manufacturers planning to bid on this item should be skilled in electronics and optics as this item is considered most difficult to manufacture. No security clearance is required to obtain this APPI.

APPI No. WE-120. Periscope, Battery Commander, M43. A binocular theodolite type instrument with a complex optical system including lenses, prisms, reticles, and mirrors. Because of the complexity of this item a high degree of accuracy is required in assembly. Manufacturers planning to bid on this item should be skilled in electronics and optics as this item is considered difficult to manufacture. No security clearance is required to obtain this APPI.

APPI No. WE-211. Radar Chronograph, M36. A device to measure the speed of projectiles in flight. It consists of a transmitter which beams waves at a projectile, a receiver which picks up the reflected waves, and a counting device which measures the difference between the frequency of the waves (Doppler Shift) and calculates the projectile speed and displays the result in meters per second. The transmitter uses tubes, all other electronics are solid state. This item is considered difficult to manufacture. No security clearance is required to obtain this APPI.

APPI No. WE-212. Range Finder, XM23E2. A device for measuring the range to targets. It consists of a power source and a ruby laser which emits a burst of radiation and a counter device that measures radiation (travel time) converts this data to distance. The range finder includes a turret, a mirror, and a mirror system, solid state electronics, and an internal power source and controls. This item is most difficult to produce. No security clearance is required to obtain this APPI.

APPI No. WE-213. Telescope, Observation, M49. An erect-image optical instrument of the prism-offset type. This instrument uses two Porro type prisms and magnifying lenses in the eyepiece and a focusing sleeve. It has no reticle, is fixed at 20x magnification and has a view field of 2 degrees, 12 minutes. This instrument is considered moderately difficult to manufacture. No security clearance is required to receive the APPI.

APPI No. WE-214. Computer, Gun Direction M18. A digital computer designed to operate within temperature ranges of -40 degrees F to +125 degrees F and to withstand shock and vibration. Components include a magnetic disc memory unit of extremely close tolerances, 106 printed circuit power supply chassis, Keyboard, display panel, read & write heads, transistors, diodes and so forth. Manufacture of this item requires clean room facilities and highly complex test equipment. This item is extremely difficult to produce. No security clearance is required to get this APPI.

APPI No. WE-215. Reproducible, Signal Data, AN/GSQ-64. Memory Logic Unit, a photo-electric punched tape reader, designed to operate under severe conditions of temperature, shock and humidity. Components consist of tape drive, printed circuit boards, solid state electronics etc. This item is considered difficult to produce. No security clearance is required to obtain this APPI.

APPI No. WE-216. Test Set, Computer Logic Unit AN/GSM-70 (FALT) A testing device designed to operate under severe conditions of temperature, shock and humidity. Components include 53 printed circuit boards, solid state electronics, switches set. This item is considered most difficult to produce. No security clearance required to obtain this APPI.

APPI No. WE-217. Rod Traversing, Handwheel, P/N 5593165. For carriage HOW 105 MM. M101, M101A1. Approximately 22 3/8" L x 1.185" D. Each end has screw threads. Machined from alloy steel to close tolerances. Not considered difficult to manufacture. FSN 1015-559-3165-C021. No security clearance required to obtain this APPI.

APPI No. WE-218. A Pin, Trail Hinge, P/N 6158096 For Carriage, HOW 105 MM. M101, M101A1. Approximately 11 3/8" L x 2 3/4" at largest diameter. This Pin has threads at one end. Machined to moderate tolerances from steel. Heat treated before machining. Not considered difficult to manufacture. No security clearance required to obtain this APPI. FSN 1015-615-8096.

APPI No. WE-219. Bushing, Top Carriage, P/N 6167152. For carriage, HOW 105 MM. M101, M101A1. This bushing is approximately 2.8" W x 5.5" diameter at largest diameter. Made from copper base alloy casting. Not considered difficult to manufacture. FSN 1015-616-7152. No security clearance is required to get this APPI.

APPI No. WE-220. Extractor, Breech Mechanism Assy. PN 7305016. For light HOW Towed 105 MM. M101, M101A1. On Extractor used in a howitzer breech mechanism to extract spent shell casings. It is approximately 6.75" L x 1.9" H x 2.5" W. Machined to medium tolerances from alloy steel. Magnette particle inspection required. Case carbonized. Not considered difficult to manufacture. FSN 1015-219-8031. No security clearance required to obtain this APPI.

APPI No. WE-221. Mechanism, Assembly, Elevating M3 Mount. P/N 5574621. This item is used on the M3 Machine Cal .50 Tripod Mount. It consists of 4 sub-assemblies and 27 other separate components. Procured as a complete assembly. Considered moderately difficult to manufacture. FSN 1005-557-4621. No security clearance required to obtain this APPI.

APPI No. WE-222. Magazine, Assembly 30 Round. This magazine applies to the Cal .30 Carbine. Components are tube, base, spring, and follower. The magazine carries 30 rounds of Cal .30 ammunition. This item is not considered difficult to manufacture. FSN 1005-716-2176. No security clearance required to obtain this APPI.

APPI No. WE-223. Bolt Assy. Breech. P/N 11010357 for 7.62 MM Machine Gun, M60 and M60C. This assembly consists of two (2) sub-assemblies and eleven (11) other components. The item is procured as an assembly. Machined to close tolerances from steel forgings. Considered moderately difficult to manufacture. FSN 1005-763-1863-A101. No security clearance required to obtain this APPI.

APPI No. WE1224. Target, Silhouette, P/N 25115. Approximate: 19 1/2" wide x 40" high. A target for use in small arms target practice. This target is made of cardboard. FSN 6920-100-01. No clearance required to manufacture. No clearance required to obtain this APPI.

APPI No. WE225. Mini Target Holding Mechanism, P/N 769131. A mechanism to support a target in a target assembly. Consists of a target assembly, a target assembly, junction box assembly, and a target assembly. This is a target assembly device to manufacture. FSN 769131-01. No clearance required to obtain this APPI.

APPI No. WE226. Case Cleaning, P/N 7267754. A case cleaning unit used as simulated. Consists of a case cleaning unit. A case cleaning unit is supplied with a case cleaning unit. FSN 7267754-01. No clearance required to obtain this APPI.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Jan. 3, 1967 page 2 No. PSA 3966 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI WE225. Guidance Set for Launcher, TOW Weapon System. The guidance set provides facilities for target acquisition, and contains the electronic circuitry necessary to develop system operating and control signals. An additional function is to provide a means of information developed by the guidance set. The guidance set consists, primarily of the guidance set, power supply, and a guidance set, which are installed in the guidance set. No Federal Stock Number assigned. This APPI is released for subcontracting opportunities only. Prime Contractor is Hughes Aircraft Co., Culver City, Calif. Confidential clearance required to obtain APPI. USAMICOM.

APPI WE226. Launcher, TOW Weapon System. The launcher is a fiberglass/epoxy structure that provides environmental protection for the guidance set and handling. It incorporates a means that are not broken until the moment of firing, allowing the missile to be unloaded from the launcher without loss of its environmental protection. Mechanical alignment and electrical protection to the launcher are provided automatically as the launcher is loaded and locked into the launch tube. When loaded the launcher serves as the launch tube and the launcher serves as the launch tube. No Federal Stock Number assigned. This APPI is released for subcontracting opportunities only. Prime Contractor is Hughes Aircraft Co., Culver City, Calif. Confidential clearance required to obtain APPI. USAMICOM.

APPI WE227. Traversing Unit for Launcher, TOW Weapon System. The traversing unit is an electronic control system which is attached to the tripod support and provides mechanical support for the launcher tube, sight/sensor, and missile as well as the necessary electrical connections between the launcher and missile. The traversing unit consists of a traversing and bridge clamp, vision camera, rate transducer generators, and a target for tracking the electrical firing sequence. No Federal Stock Number assigned. This APPI is released for subcontracting opportunities only. Prime Contractor is Hughes Aircraft Co., Culver City, Calif. Confidential clearance required to obtain APPI. USAMICOM.

APPI WE228. Sight Sensor Unit for Launcher, TOW Weapon System. The sight/sensor compares the instantaneous line of sight from the launcher to the target. This comparison establishes the amount of correction required by the missile at any moment during the flight. The sight/sensor consists of an optical sight, an infrared sensor, and associated electronic circuitry including a preamplifier, bore-sight unit, and a reference resolver. No Federal Stock Number assigned. This APPI is released for subcontracting opportunities only. Prime Contractor is Hughes Aircraft Co., Culver City, Calif. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. AT-76R1. Wheel, Solid Rubber Tire, Road M113. This ORD 8763350 road wheel was originally released in July 1966. Provision of this revision is adjustment of quantities. FSN 2530-679-7973. No clearance required to obtain APPI. USA-TAC.

APPI No. AT-76R2. Sprocket, Drive M48-60. This ORD 8671597 sprocket was originally released in July 1966. Provision of this revision is adjustment of quantities. FSN 2530-318-0229. No clearance required to obtain APPI. USATAC.

APPI No. AT-76R3. Track Shoe Section XM501 Series. This ORD 10892811 track shoe section was originally released in July 1966. Provision of this revision is adjustment of quantities. FSN 2530-730-7343. No clearance required to obtain APPI. USA-TAC.

APPI No. AT-114. Paulin Assembly. The ORD 7707288 paulin assembly is used on the M37 and M37B1 3/4 cargo truck to protect personnel and cargo from inclement weather and unfavorable conditions during vehicle operation. This paulin assembly consists of following components: (a) #10 processed duck (b) grommets (c) tie-down ropes (d) strap and buckle assemblies (e) rivets (f) sewing thread. SNL APP 7741. FSN 2540-770-7288. No clearance required to obtain APPI. USATAC.

APPI No. AT-115. Tire Pneumatic 16.00X24, 12 Ply Lug Type, Nylon, Grader DC. The MS-35390-43 pneumatic tire is a major component of the traction system for earth moving equipment. This tire assembly has following basic characteristics: (a) ply rating-12 (b) type classification-Grader DC (c) tread type-DIR TRIN (d) cord material-nylon (e) max rated load-7900 lbs (f) inflation pressure-30 PSI (g) app width-18.2 in (h) app dia-57.5 in. Specification Fed Spec ZZ-T-381. SNL APP MULTIPLE. FSN 2610-678-1363. No clearance required to obtain APPI. USATAC.

APPI No. AT-116. Battery, Dry Charged, 12 Volt Type 6TN. This MS-35000-3 battery assembly is used for starting, lighting and ignition purposes for wheeled and tracked vehicles. This assembly has following characteristics: (a) automotive series (b) 12-volts (c) 6-cell (d) 100 amp-hr. rating. Assembly consists of following components: (a) hard rubber or plastic case (b) positive lead plates (c) negative plates (d) cover (e) vent plugs (f) terminal posts (g) cover (h) vent plugs (i) terminal posts (j) baffle plates (k) battery hardware. SNL APP MULTIPLE. FSN 6140-057-2554. No clearance required to obtain APPI. USATAC.

APPI No. AT-117. Regulator, Engine, Generator Control Assembly. The MS-51356-1 regulator assembly is a major component of the electrical system for military vehicles. This assembly has following basic characteristics: Type II (vibrating); Grade A (waterproof); for use on negative ground systems only; overall dimensions 6-1/2 x 9-7/8 inches; voltage-28 volts; amperage-25 amps DC, based on performance type specification. SNL APP MULTIPLE. FSN 2920-335-4677. No clearance required to obtain APPI. USATAC.

APPI No. AT-118. Windshield Assembly, Flat, Vehicular. The ORD 7005417 windshield assembly is a major component of the cab assembly for wheeled vehicles. This windshield assembly consists of following components: (a) safety glass (b) steel frame (c) weatherstrip (d) filler (e) cross piece assembly with channel type hinge (f) latch (g) special side brackets (h) common hardware. SNL APP MULTIPLE. FSN 2510-700-5417. No clearance required to obtain APPI. USATAC.

APPI No. AT-119. Switch Electrical Fuel Interlock. The ORD 10874979 switch assembly is an oil pressure activated diaphragm contact control device for military equipment. This switch assembly has following characteristics: (a) operating pressure-2.5 to 5.5 PSI (b) test pressure-150 PSI (No. 10 w oil) for 5 minutes without change in operating pressure or leakage (c) contact continuous load-2.5 amps at 28 volts inductive-5.0 amps at 28 volts resistive. SNL APP MULTIPLE. FSN 5930-771-8119. No clearance required to obtain APPI. USATAC.

CANCELLATION OF APPI
APPI No. AV-133. Cancellation of APPI. Previously published as AV-133 in 8 November 1966 issue of Commerce Business Daily, this APPI is hereby cancelled on request of the requiring activity of this Command. AV-133, Filter, Fluid Pressure. USAVCOM.

APPI No. AV-151. Trunnion, Left Hand, Steel casting, corrosion resistant, AMS-5355. Appl., UH-1 Aft. In accordance with Procurement Package No. 204-060-161-1. FSN 2995-731-7957. No clearance required to receive APPI. USAVCOM.

APPI No. AV-152. Cable Assembly, Tail Rotor. 7 X 19 corrosion resistant steel, 132 in. long X 1/8 in. dia. Appl., UH-1 Aft. In accordance with Procurement Package No. 204-001-792-9. FSN 1560-771-2512. No clearance required to receive APPI. USAVCOM.

APPI No. AV-153. Lever Assembly, Throttle Control. Aluminum casting approximately 4 in. long. Appl., UH-1 Aft. In accordance with Procurement

Package No. 204-060-743. FSN 1560-739-4577. No clearance required to receive APPI. USAVCOM.

APPI No. AV-154. Repair Kit, Plexiglass. Parts make-up data includes: resin, acrylic, spatula, eye dropper, masking tape, tin foil. FSN 1560-695-4909. No clearance required to receive APPI. USAVCOM.

APPI No. AV-155. Scale, Aircraft Weighing. 150,000 Lb. max. cap., portable with carrying case, electrically operated, AC, 110V, 60 cycle, single phase, DC, 22V to 28V, indicator, 5100 lb., dial graduations in 10 lb. increments, accessories per specifications, MIL-W-7327, Type No. C-1. FSN 6670-999-1195. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-156. Regulator, Oxygen, Dither Demand for Fixed Position. Automatic pressure breathing in accordance with MIL-IR-25916. Appl., OV-1 Aft. FSN 1660-567-2921. No clearance required to receive APPI. USAVCOM.

APPI No. AV-157. Cage, Liquid Quantity. Appl., UH-1 Aft. Identification by these part numbers only: Simmonds Precision Products P/N 393001-01490. Bell Helicopter P/N 205-061-633-7. FSN 6680-868-9811. No clearance required to receive APPI. USAVCOM.

APPI No. AV-158. Brake Assembly, Magnetic. Appl., UH-1 Aft. Identification by these part numbers only: Bell Helicopter P/N 204-001-376. MEMCOR, Inc., P/N MP-498-3. Airborne Accessories P/N R460M15-3. FSN 1680-909-8716. No clearance required to receive APPI. USAVCOM.

APPI No. AV-159. Tank, Hydraulic Fluid. Appl., CH-47 Aft. Identification by these part numbers only: Vertol (Boeing) P/N 114HS104-2. Adel Division, General Metals Corp P/N 416220-2. FSN 1650-050-8349. No clearance required to receive APPI. USAVCOM.

APPI No. AV-160. Harness, Aircraft Safety Shoulder. Designed for one person, 1-3/4 in. wide webbing adjustable, 48 in. max. adjustable length, steel buckle. In accordance with MIL-TH-5364 and Air Force Drawing 50D3770. Procurement will be 100% small business set-aside. FSN 1680-485-3047. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-161. Switch Assembly, Low Fuel Level Warning. Assembly must be effected utilizing Revere Corp Switch F-8300-14 in accordance with Bell Helicopter Co. procedure. Appl., UH-1 Aft. In accordance with Procurement Package No. 204-060-654-5. FSN 2925-969-9150. No clearance required to receive APPI. USAVCOM.

APPI No. 162. Fuel and Oil Kit, Filter Element. Appl., UH-1 Aft. In accordance with Procurement Package No. 204-2490-1. FSN 2945-019-0280. No clearance required to receive APPI. USAVCOM.

APPI No. AP-11R-2. Simulator, Artillery Gun-Flash. M110 equipped with Squibs, electric, S72 "pneumatically loaded" weighs 69 lbs per box of 24, and is comprised of the following major parts: Container. Outer is hollow black cylinder 7.81" length x 1.88" OD fabricated of plastic. The top end has 1/2" hole threaded to receive filling plug. The bottom end of outer container is attached to a shoulder at hollow end of inner container. Filling plug is of red plastic material slotted to receive a screw driver unit threaded to fit the hole in the top of outer container. Container, inner is hollow cylinder 6-7/8" length, 1-1/4" outside diameter fabricated of black plastic. The bottom has an external flange which forms a seat for the outer container and an internal thread to receive adapter holder. Pyrotechnic Charge is contained in container inner, consists of 80 grams of pyrotechnic composition containing magnesium powder and oxidizer. Adapter holder is a black plastic externally threaded plug with a well in the center to receive the electric squib. This well projects into a paper former which is recessed into the pyrotechnic charge. The simulator is packaged in fibre container 24 per box with commercial Squib S72. Manufacturing firms bidding on this item will require facilities to process and load pyrotechnics and a technical staff familiar with pyrotechnic specifications and processes. This item is considered somewhat difficult to produce according to Government specifications. No clearance required to receive APPI. USAMUCOM.

APPI No. AP-15R-2. Projectile, 90mm. TP-T, M353, MPTS, 14.2" max L x 3.537" OD, (5) components. Body, approx 10.15" L x 3.537" OD, one piece design, threaded nose section, rotating band and crimping grooves, base section 7/8" thd x 1.05" deep center hole, matt, stl, HR carbon bars, excluding Bessemer Stock. Rotating Band, blank 3.53" OD x 1.255" L x .21" wall thickness, matt, gilding metal. Class B, annealed, Windshield, cone shape, 6.928" L x 3.51" OD at base, base has 2-3/4" ID thd, varying wall thickness, matt, Al alloy die casting, Comp A380. Plug and Disc Assy, (2) components. Plug, 7/8" OD thd x 3/4" L, 5/16" bore, with .44" counterbore, plus (2) 7/64" x 1/8" deep holes in base, matt. Al alloy, 2024, T4, finish, anodize film, disc, .435" OD x .004" thick, matt, brass, comp 2. Manufacturing firms bidding this item will require a highly competent technical staff of engineers, metallurgists, chemists and tool design engineers. This projectile is considered very difficult to produce to applicable specifications. No clearance required to receive APPI. USAMUCOM.

unit of replacement, except that the transmission shall be regarded as an integral unit with the torque converter. An industrial type diesel engine including a fuel tank of sufficient capacity for 8 hours of operation shall conform to Specification MIL-E-11276. Service brakes and a fully mechanical parking brake shall be provided. Service brakes shall be provided on all 4 wheels, shall be foot controlled, and must be operable specified shall be an actuated. Brakes shall be self-brake the loader, equipped with the engine. The attachment to a complete stop within 5 feet from a speed of 20 mph. Loader with dead weight shall be operable at speeds of 4 to 4 mph. Loader shall be provided with a removable metal fender for each wheel to prevent mud, water, and stones from hitting the operator. A 24 volt electrical system shall be provided. When specified, loader shall be equipped with lifeline and tie-down attachments shall be provided. Loader is intended primarily for use in bucket loader operations, long-term projects with excavating, and fork lift general utility work and as an expedient replacement for other trucks and shovels. In accordance with MIL-D-12144, FSN 1005-912-4943. No security clearance required to obtain APPI. USAFEC.

APPI No. ME-111. Drier Mixer. Bituminous Concrete Material. Wheel Mounted. Drier mixer shall consist of a gasoline engine, charging pump, mixing heating pump, bitumen storage tank, fuel oil heating system, and pump mounted on a portable road cart-type trailer. Necessary electrical devices and accessories shall be provided. Drier mixer shall have an overall width of not more than 6 feet, shall be towable by a truck on paved roads and gravel highways at speeds up to 40 mph, and at distance to or permanent deformation of 1/2 inch or parts, deformation of the suspension or loosening of components. Charging pump shall have a capacity of not less than 3 gallons per minute. A bitumen storage tank shall be provided as an integral part of the drier mixer and shall have a minimum capacity of 200 gallons. Heating system shall have a heating capacity that will raise the temperature of the contents of the storage tank from 60° F. to 100° F. in not less than 60 minutes. Bitumen heating system shall consist essentially of a burner, fuel oil tank, fuel pump, fuel tank, exhaust stack, and one or more low pressure burners. Minimum output capacity of the drier mixer for hot bituminous mixes shall be 3 to 5 tph, for other bituminous mixes 1 tph, for low slump portland cement concrete 5 tph. The temperature of the aggregate at the end of the drying cycle or at drier discharge shall be not more than 100° F. and not less than 250° F. Accessories shall be furnished to facilitate operation of the drier mixer and shall include a burner holding tank and an engine driven bitumen mixing pump. Drier mixer shall be powered by an industrial type gasoline engine conforming to MIL-E-11276, Group II. Engine shall be furnished complete with accessories. Two wheel, pneumatic, road military type trailers shall be furnished. A 24 volt electrical system shall be provided. Loading and tie-down attachments shall be provided. Drier mixer is towed by standard military 2 1/2 ton truck 6 x 6 M-44 series. Drier mixer used in the maintenance and repair of road and asphalt pavements. In accordance with MIL-D-12144, FSN 1005-912-4943. No security clearance required to obtain APPI. USAFEC.

APPI No. ME-112. Mixing Plant. Asphalt. Continuous Mix. Diesel Engine Driven. Portable. 100-150 TPH capacity. Portable asphalt mixing plant shall consist of all units diesel engine, and other components except fuel storage tank, hot oil heater, asphalt heaters, asphalt storage tanks, and asphalt storage transfer pump, required to result in a complete plant for continuously producing high type asphalt concrete mixes at a capacity of 100 to 150 tons per hour. Plant shall include but not be limited to the following units: Cold aggregate feeder of 8 ft per and frame construction. Cold aggregate feeder of the centrifugal discharge bucket type. Aggregate feeder of single rotating drum construction. Rotary drum collector of the exhaust fan and centrifugal collector type separator. Two hot oil discharge bucket type. Gradation control unit of the 4 ft 2 in screening type. Tines feeder of the hopper and sand or gravel conveyor type. Portable conveyor of the elevating troughing type. Mixer of the continuous proportioning and mixing type. Piping equipment and wash blocking required for central plant elevation and operation with tank car, diesel engine, complete with accessories, conforming to MIL-E-11276. Above units shall be mounted on a trailer unit equipped at the discretion of the supplier as long as the plant may be interconnected mechanically and operated at rated capacity. Each component shall operate over unimproved roads and up to 40 mph. Each semitrailer and cart type trailer shall be equipped with a water proof, 24-volt, electrical system. Each unit shall be provided with lifeline and tie-down attachments. Mixing plant is intended for use as a complete central plant (except for burner fuel storage, hot oil heater, asphalt heaters, bulk bituminous storage, and

asphalt storage transfer pump facilities) for producing continuous mix, high type asphaltic concrete mixes. In accordance with MIL-M-52329, FSN 3895-689-7402. No security clearance required to obtain APPI. USAFEC.

APPI No. ME-113. Shop equipment, general purpose repair, semitrailer mounted. Shop shall consist of a van body with a hot air heating system and folding sides mounted on a semitrailer chassis. Shop shall be fitted with all items specified in SM 5-4-4940-S11. Contractor shall furnish complete shops with all items of equipment except the 60,000 Btu heater, and five padlocks which will be furnished by the Government and shall be mounted by the contractor. Shop shall be identical to the prototype which will be loaned to the contractor by the Government. In case of conflict between the Government loaned prototype and the specification, the specification shall govern. All seals, hoses, V-belts, electrical cables, cords and wiring shall be made of material operable to minus 65° F. Shop shall not leak when exposed to a precipitation of 1/2 gallon per minute per square foot of surface. Shop shall perform at any ambient temperature between minus 65° F. and plus 125° F. When loaded with the tools and equipment, the shop shall withstand towing on paved roads, unimproved roads, and cross country trails. The towing shall include abrupt stops and sharp turns. During or following towing, there shall be no damage to or displacement of any component, accessory, part, or tool installed in or on the shop; no evidence of defective welded, bolted, or riveted connections on the shop; and no entrance of water, mud, or dust into the body of the shop. The gasoline engine shall conform to MIL-E-11275, Group II, liquid cooled with a fuel tank of at least a 55 gallon capacity. The body shall be constructed of aluminum and steel with welded and riveted connections. Shop shall be equipped with service and blackout lighting systems. Lifeline and tie-down attachments shall be provided. The general purpose repair shop is intended for use by personnel engaged in the maintenance and repair of mechanical equipment. In accordance with MIL-S-45538, FSN 4940-287-4894. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-127. Voltmeter, Digital AN/GSM-64. For General purpose use. For making fast, accurate DC voltage measurements with extremely small changes in voltage that would be impossible to detect on a moving coil pointer meter. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-128. Test set, electronic circuit AN/GSM-65. Measures output voltage, output current, frequency, regulation and efficiency of either single phase or three phase aircraft inverters. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-129. Test set, electronic circuit AN/GSM-72. On command from a test programmed tape the AN/GSM-72, makes either dc resistance, insulation resistance or impedance measurements. It permits static testing of independent modules, chassis of various radio and radar equipment. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-130. Radio set AN/PRC-93(). Provides transmitting and receiving facilities in the 1.4 to 29.7 mc frequency range. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-131. Terminal, telegraph AN/MGC-34(). A lightweight mobile assembly consisting of 3 ea Teletypewriter TT-4C/TG; 3 ea Repeater/Transmitter, Teletypewriter TT-76C/GGC; 6 ea Terminal, Telegraph TH-5/TG; 1 ea Junction Box J-85/G; 3 ea Chairs, folding; 1 ea Cable Assembly, Electrical 100 ft; with accessory equipments installed in 1/2 ton Trailer M-416 (mod). The teletype equipment may be operated from the trailer or may be rapidly removed and placed in operation from a tent or other shelter as needed. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-132. Public address set AN/PIQ-5A. May be used portably or with its electronic megaphone mounted to a stand and the microphone hand-held at a distance up to 25 feet from the megaphone. Provides amplification up to 46 db. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-133. Frequency Meter AN/TSM-16A. High speed electronic counter combined with an accurate crystal controlled timing gate. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-134. Calibration set, radiac AN/UDM-1A. Designed to provide a radio-active source and calibrating radiac equipments. A capsule containing a small amount of cesium 137 furnishes a beam of radiation. An optical system is provided so that the meter of the radiac equipment under test can be read from a safe distance. Different from AN/UDM-cobalt 60. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-135. Radio set AN/PRC-41. Provides ground-to-air, communication within the frequency range of 225.0 to 399.99 mc. in the form of a man-carried pack. Adaptable to vehicular installation or fixed station use by use of Accessory Kit, Radio Set MK-706/PRC-41. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-136. Test set, teletypewriter AN/UGM-1. Alignment of telegraph circuits and equipments analysis of telegraph signals, bias distortion, contact efficiency. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-137. Spectrum analyzer AN/UPM-84A. This is a broad band multiple superheterodyne type of receiver. The output is a video display or a cathode ray tube which shows power distribution of radio frequency as a function of frequency. It features a variable scan ratio, variable sweep width and sweep I.F. No security clearance required to obtain APPI. USAFEC.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Feb. 7, 1967 page 2 No. PSA 3986 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. WE-227. Panel Control Box. P/N 11701255, a small arms part. This armament control panel subsystem is used on a machine gun mount. This system consists of four (4) assemblies and approximately 45 other parts. Components must be wired and soldered. Wiring diagram and schematic diagram must be used to assemble this system. FSN 1005-912-4105. No security clearance is required to obtain this APPI.

APPI No. WE-228. Brush, Cleaning Small Arms. P/N 7790463, a small arms part. Brush is used to clean the chamber of the 7.62MM M14 Rifle. The brush has a total length of approx. 3.4 inches. The brush consists of an adaptor and brush assembly, a nail, and a driver. Component has capped end on front of wire protrusion. FSN 1005-690-8441. No security clearance required to obtain this APPI.

APPI No. WE-229. Frame Assy; Rear Sight P/N 7791015, a small arms part. This assembly is the frame for the sliding member which enables the operator of the M79 Grenade Launcher to set the required elevation for the weapon. Material is steel. Tolerances are not difficult to maintain. FSN 1010-439-6250-B056. No security clearance is required to obtain this APPI.

APPI No. WE-230. Variable Resistor & Switch Assy. P/N 779-1879, a small arms part. This item is used on a machine gun mount and consists of approx. thirty (30) parts. Approximately twenty (20) of the parts are standard shelf items such as screws, washers, pins, inserts, and wire. The non-standard parts are gears, arms, plate, springs, and support. Electrical components are a resistor and a wiring harness with schematic diagram. FSN 1005-073-9009. No security clearance required to obtain this APPI.

APPI No. WE-231. Tray Assembly. P/N 7791-028, a small arms part. This feed tray assembly permits ammunition to be fed to the 7.62MM Machine Gun M73. The assembly consists of a tray, a bracket, 2 retainers, and 4 rivets and must be welded, riveted, stress relieved, carburized, quenched, and tempered. Material is steel. FSN 1005-690-0322-A110. No security clearance required to obtain this APPI.

APPI No. WE-232. Barrel w/Flash Suppressor. P/N 11686344, a small arms part. A machine gun barrel used on the .50 Cal. M85 Machine Gun. The gun is capable of firing at sustained rates and the quality of steel in the barrel and the dimensions of the barrel are critical. Tolerances to be held are moderately difficult. FSN 1005-912-4123. No security clearance required to obtain this APPI.

APPI No. WE-233. Guard Hand Front, P/N 5564245, a small arms part. This front hand guard is used on the M1 Rifle. The guard itself is made of wood and the ferrule and spade are made of steel. Tolerances are not difficult to maintain on this component. FSN 1005-556-4245. No security clearance is required to obtain this APPI.

APPI No. WE-234. Guard Hand Rear, P/N 5564024, a small arms part. This rear hand guard is used on the .30 Cal. M1 Rifle. The guard itself is made of wood; the band is made of steel. Tolerances are not difficult to hold. FSN 1005-554-6024. No security clearance is required to obtain this APPI.

APPI No. WE-235. Stock Assy. P/N 6535467, a small arms part. This assembly consists of a wood stock, a steel ferrule, a screw, and a swivel and is used on the .30 Cal. M1 Rifle. Tolerances are not difficult to hold. FSN 1005-653-5467. No security clearance is required to obtain this APPI.

APPI No. WE-236. Selector, Rate, Cal. .30 Carbine M2 and M3. P/N 716838, a small arms part. This component is used to select between automatic, semi-automatic, or manual fire on the .30 Cal. Carbine. This selector is composed of a body and a knob. The body requires heat-treatment and both require application of final finish. Some tolerances will be difficult to maintain. Material is of carbon steel. FSN 1005-716-1838. No security clearance is required to obtain this APPI.

APPI No. WE-237. Brush, Bore, .762MM .30 Cal. P/N 5564174, a small arms part. This is a wire brush used by the operator to clean the bore of the .30 Cal. or .762MM weapon. The brush has a maximum diameter of 0.335 inches and a pitch of 0.125 inches. The total length is 3.11 inches and the brush length is 2.06 inches. The brush has a tip with internal threads. A rod is screwed into these threads for handling by the operator. Weight is important. FSN 1005-556-4174. No security clearance is required to obtain this APPI.

APPI No. WE-238. Spring, Operating Rod, P/N 6147568, a small arms part. This operating rod spring is used on the .30 Cal. M1 Rifle. The operating rod is attached within the spring to provide for semi-automatic operation of the weapon. Moderately close tolerances are required on the wire diameter and spring diameter. The spring must be heat-treated, quenched, and tempered. FSN 1005-614-7568. No security clearance required to obtain this APPI.

APPI No. WE-239. Tube, Gas Cylinder. P/N 5509079, a small arms part. This gas cylinder tube is used on the .30 Cal. M1918A2 Browning Automatic Rifle to return the gases from the barrel to the receiver to automatically operate the weapon. Overall tolerances are moderately close. Consideration must be given to erosion of certain areas by the hot gases of combustion. This component must be heat-treated, quenched, and tempered. FSN 1005-550-9079-A004. No security clearance is required to obtain this APPI.

APPI No. WE-240. Leaf, Rear Sight Assy. P/N 7267936, a small arms part. This rear sight leaf assembly is used on the Cal. .50 heavy barrel machine gun, M2. The sight is graduated in meters. The assembly consists of a leaf, click, a slide, a knob, a screw, two pins, and a nut. This assembly should be capable of operating over a full travel range by finger pressure only. Tolerances are not difficult to maintain. Material is steel. FSN 1005-336-8608. No security clearance is required to obtain this APPI.

APPI No. WE-241. Flash, Illiter. P/N 7162072, a small arms part. This component is attached to the muzzle end of the Cal. .50 heavy barrel machine gun, M2 to help smother the flash. It is attached to the barrel by a nut and bolt. The flasher consists of a cone, a ring, a segment, a nut, and a bolt. Material is steel. FSN 1005-716-2072. No security clearance is required to obtain this APPI.

APPI No. WE-242. Carrier, Aperture, Rear Sight. P/N 7791014, a small arms part. This aperture carrier is used on the rear sight assembly to measure elevation. It slides up and down on the posts of the rear sight. (Item is applicable to Launcher Grenade 40MM, M79). This part is machined from an investment casting. A final protective finish is applied. FSN 1011-439-6249-B056. No security clearance is required to obtain this APPI.

APPI No. WE-208. (This item of APPI was previously published (6 December 1966) and is now cancelled.) Aiming Circle, M2. An optical instrument consisting of a telescope mounted on a mechanism which permits unlimited azimuth and limited elevation movements and is used to measure angles from a base line. This complex fire control instrument is considered difficult to manufacture. No security clearance is required to obtain this APPI.

APPI No. AP-3R-3. Projectile, 175mm, HE, M417, MPTS is approx. 34" L consists of 4 components. Body, 34" L x 6.88" OD, parabolic shape with tapered base section, 5.5" max. ID, tapered wall thickness, serrated rotating band, 2" ID nose thread, material, steel, ASTM A273-58T sections 1-14, Inc., for Hot Forge and heat-treat method, minimum mechanical properties for base section are, YS 80,000 PSI, elongation 10% and for sidewall, YS 85,000 PSI elongation 12%. Rotating Band, blank, 6.905" ID x 2.48" W x .48" wall thickness, material, gliding metal, Class B, annealed, Spec. MIL-B-20292, Obtruding Band, 6.59" ID x .57" W x .255" wall thickness, material, polyamide molding plastic, composition A, type 1, Spec. MIL-M20693 and Base Cover, 4.18" DD x .0299" thick, material, steel, strip CR, temp 4, finish 1, ASTM A109, welded 360 degrees to base. Contractor shall provide and maintain an effective quality assurance system in accordance with Spec. MIL-A-2550 and MIL-I-45208. Ballistic test criteria required for acceptance of each lot. Firms bidding on this item

will require a highly competent technical staff of engineers, metallurgists, chemists and tool design engineers to design, fabricate and maintain precision tools required for mass production of this projectile. This projectile is considered very difficult to produce to applicable specifications. No security clearance required to receive APPI, AP, USA MUCDM.

APPI No. AP-43R-1. Fuze, PI, BD, MS30A1 Primer and Detonator Loaded is 1.963" L x 1.350" D and consists of 44 different components, major components, Housing Rotor, 1.35" D x 1.44" L machined with various grooves, slots, bores, counterbores and holes, material, aluminum alloy rod, temper T3, Spec. QQ-A-225/3, Rotor, .745" D x .716" L, various size holes, slots and counterbores, material, brass rod, 1/2 hard, composition 24, Spec. QQ-B-626, Shield (Blank), 1.25" D x 1.489" L x 1.05" ID with .165" web near end, material, aluminum alloy 61S-T4, Spec. MIL-A-12545, Insulator, Contact, "Cup-Shaped", .22" DD x .192" ID x .30" L, material, thermoplastic, non-rigid polyamide resin, Type 1, Spec. MIL-P-20693, Plate, Bearing (Rear), approx. 1.00" D x .028" thick with various slots, holes, and formed tabs, material, brass strip, composition 1, 1/4 hard, Spec. QQ-B-613, Plate, Bearing (Front), .762" W x .92" L x .028" thick with various radii, slots, holes and formed tabs, material, brass strip, composition 1, 1/4 hard, Spec. QQ-B-613, Leaf Number 3, .328" W x .475" L x .052" thick with various radii, holes and tabs, material, aluminum alloy 2024, temper T3, Spec. QQ-A-250/4, Leaf Setback .467" L x .306" W x .052" thick, various holes and radii, material, aluminum alloy 2024, temper T3, Spec. QQ-A-250/4, Plunger Graze, .674" L x .253" D, material, stainless steel 303, condition A, Spec. QQ-S-763. Various small components required such as nuts, pins, screws, roll pins, springs, washers, spacers bushings, contacts, studs, clips, star wheel pallet and a bleeder resistor. Complete assembly is subject to arming and non-arming acceleration tests, graze and armor plate functioning, environmental conditioning and safety tests. Firms producing this item will require a technical staff of engineers, metallurgists and tool engineers to design and maintain an effective quality assurance system. This item is considered very difficult to produce in accordance with applicable specifications. No security clearance required to receive APPI, AP USA MUCDM.

APPI No. AP-63R-1. Projectile, TP-T, 152mm, XM411, MPTS is 15.07" L x 5.995" in diameter. It consists of 4 parts and 1 sub-assembly as follows. Body and Band Assembly, the body is 10.02" L x 5.993" in diameter with sidewall thickness of .418", it has 5-1/2-12UN-2B internal threads on open end, 2-3/8-16UN-3B-LH internal threads in base end. The band seat is .853" W x .138" D. Body material is, alloy steel for forging ASTM, Specification A274 or steel alloy, hot-rolled bar, ASTM, Specification A322. The rotating band is 6.033" ID x .828" W x .252" thick, material is sintered iron, Class 4, Specification MIL-R-11073, Spike, length 6.05", large diameter is 5.38" with neck reduced to 2.745" OD and formed cavity 4.916" D x 1.81" ID. There is a 5-1/2-12UN-2A thread on the large end and 5-1/4-12UN-2A thread on the shoulder and a 200-UNS-1B internal thread at open end of cavity, material is aluminum alloy, forging, ASTM, Specification B247, or aluminum alloy, Bar or Rod, ASTM, Specification B221 or B211, Windshield, a tapered cone 8.93" L with large D of 5.99" and small D of 1.206" with wall thickness of .125", material, steel, special bar, quality, Specification ASTM-A-107 or carbon steel, plate, Specification QQ-S-535, Plate, approximately 5-1/2" D disc x .63" thick with 5-1/2-12UN-2A thread on outer diameter, two 1/4" work holes 2.87" apart drilled to 3/16" D on one face, material, steel, bar, special quality, ASTM, Specification A107 or steel cold finish, ASTM, Specification A108 or steel carbon, plate, Specification QQ-S-635, Adapter, Tracer, 3.000" D with step out to 2.247" D x 1.18" thick, cavity in center, .770" D x .927" D, 2-3/8-16UN-2A thread on step D, 2 work holes 5/16" D x 7/32" D, spaced 2.00" apart, material, aluminum alloy, bar or rod, ASTM, Specification B211 or B221 or aluminum alloy forging, ASTM, Specification B247, protective finish, Finish Number 7.2.1 of MIL-STD-171, dechromate seal in accordance with Table III of Specification MIL-A-8625. This projectile assembly is difficult to manufacture due to tight tolerances and concentricities required. Firms bidding this item must have a staff of metallurgists, and chemical engineers and tool designers to fabricate this projectile to meet Government Specifications. No security clearance required to receive APPI, APUSAMUCOM.

APPI No. AP-64R-1. Cartridge, 152mm, Hent-T-MP-XM409E1 consists of (8) major components. Body 5.99" D x 10" L x 5.1" ID x 7.87" D, smaller base 2.375" D x 5.74" counterbase 1.19" D threaded 1 and OD each end, Band groove on outside material, steel, forging AISI 52100 steel 1.00% minimum carbon, Ring Locking 5.5" D x 1.5" L x 4.7" ID, Threaded on outside D, material, steel, tubing seamless, specification QQ-T-830 or steel tubing FS-1055, Adapter Fuze 3" D x 1.178 length, counter, thread one end 2.375" thread opposite end material aluminum alloy 7075-T6 specification

QQ-A-277. Windshield 5.99" D tapered to approximately 2" D at small end by 6.5" L with approximately 3/16" wall thickness, material, steel, Cap, Windshield 2.26" D tapered to 1.225" opposite x 1.947 length counterbases in inside diameter, material aluminum alloy 7075-T6 specification QQ-A-277 liner, smooth 60 degree approximately 5.4" D x .175" wall thickness x 4.421" length, copper sheet specification QQ-C-576, rotating Band-Blank 6.033" ID x .828" length with 252" thick wall. Material, sintered iron class 2 specification MIL-R-11073, Ring, locking, 3.85" D x .31" length x 3.25" ID threaded inside. Material, aluminum alloy 2024-T4 tubing specification WW-T-783 spacer 2.375" diameter x .36 thick threaded OD, material aluminum alloy, 7075-T6, specification QQ-A-277. Complete assembly also consists of smaller components. Dummy fuze, insulators, wire and eyelet to produce to meet applicable specifications. No clearance required to receive APPI, APUSAMUCOM.

APPI No. AP-65R-1 Case, Cartridge, 152mm, XM157 - parts for consisting of two parts, (1) body and (2) base. Both parts are made of a rigid, molded composition consisting of nitrocellulose, Kraft (Sulfate) Woodpulp Cellulose and resin with a no residue characteristic upon ballistic firing and stability, tensile strength, weight, density and workmanship requirements as indicated in Specification PA-PD-2616 w/EO 38602-S. Body is of cylindrical, expanding, tapered shape of .125" wall thickness from an open end of 5.9" OD to 6.45" with subsequent step down curvature to an opening of 3.265". Side wall may be made in one or more sections parallel to the datum D only. Base is of cylindrical, flat, dish shape with slight base curvature and .175" wall thickness with .68" side wall height with an internal center hollow hub of .712" ID and .96" high opening, with .40" hole in top of hub. Firms bidding on this item should have a technical staff familiar with molded kraft fiber and explosive processing. This item is not considered difficult to manufacture to applicable specifications. No security clearance required to receive APPI, APUSAMUCOM.

APPI No. AP-77R-1. Fuze, PD, MS25, Less Head Assembly, MPTS consists of 13 components, the major components are Body, truncated cone, 1.77" L, max OD of 1.93", 1-1/2" x 1/2" thread on the outside of the base with a 1-1/8" x 20 thread in the nose, various holes, bores, counterbores and threads, material, aluminum alloy rod, T4, ASTM B211 or 2011, T3, ASTM B211, alternative material, aluminum alloy, casting, alloy SC 84A or B, ASTM B85 or aluminum alloy, permanent mold, casting, alloy, SC 64D, ASTM B108, Pin, Safety, 1.55" L, shank D of .198", .343" head D, material, brass rod, ASTM 616, alternate material, for upset or cold heading only, steel bar, 1010 or 1020, as cold finished, ASTM A108, Pin, Slicer, Guide, .375" L, slotted head with 1/4" x 28 thread on DD, material, steel, bar, cold finished, 1117, 1212 1213, ASTM A108, Cup, Booster, .83" L, 1.128" DD, wall thickness varies from .110 to .064" 1-1/8" x 20 thread on OD for approximately .225" at top of cup, material, aluminum alloy die casting, Composition S12B, S12A, or SC 84A, ASTM B85, alternate material, aluminum alloy, sheet, 1100, 3003, or 5052, ASTM B209, Slider, .82" L, .462" in D, various slots, holes, material, aluminum alloy rod, ASTM B211, smaller components consist of three helical springs, two plugs, a pin, and a safety wire. This item is considered difficult to produce in accordance with the applicable specifications. No security clearance required to receive APPI, APUSAMUCOM.

APPI No. AP-79R-1. Mine, AP, M26, Body is made of five aluminum die casting alloy number 380 in Federal specification QQ-A-591. The body casting is circular and is three inches in D and approximately six inches H with a 1/8" cross section. Two diameters on the internal surface are required to be bored to maintain close tolerance. There are two castings which assemble into the body, one is used as cost, the barrel, which is approximately 2 1/2" in D and 2", the other is about 2" in D and requires assembly of a die cast lever, a spring and an explosive unit (detonator) purchased from Olin Mathieson at East Alton, Illinois. Two additional die castings: 3" and 2" in D and 1/2" H with a small steel screw machine part which is threaded on one end and convex on the other, with a small and a large "O" ring (commercially procured) are assembled together with a spring steel fastener. The body and cover castings are required to pass a leak test. The two internal castings, the cover assembly and a plastic separator are assembled into the body for shipment. Shipment requires fiber containers for three units and a wooden box which takes six fiber containers. In order to manufacture this item, a producer must be capable of fabricating intricate aluminum die castings and have some machining facilities. He must have a competent staff of engineers, tool and die makers and metallurgists. This item is considered very difficult to produce to applicable specifications and drawings. Confidential clearance required to receive APPI, APUSAMUCOM.

APPI No. AP-99R-1. Projectile, 60mm Mortar, M5A2B1 is a pearlitic malleable iron casting Class 35-44. Specification MIL-C-46971. Approximately 1 1/2" diameter in a teardrop shape with a maximum OD of 2 3/8" with a .003 tolerance, and a maximum ID of 1 1/2" with a .003 tolerance. Both ends of the body are threaded. The wall thickness average approximately .125" at the finished item. The body requires hydrostatic testing at 4000 PSI, air test at 150 PSI, a magnetic particle inspection and radiographic inspection. The protective finish is olive drab paint on the exterior (1.5 to 1.5 mil thickness) and a type of acid proof black paint on the interior.

APPI No. AP-100R-1. Projectile, 60mm Mortar, M5A2B1 is 100% L x 2.364" at the point of exit. The item consists of a tail assembly, a body tube assembly, aluminum loading assembly and parachute assembly. The illuminant is loaded into the body tube and includes sodium nitrate, lithium and magnesium. This is ignited by a first fire composition. The illuminant which is consolidated in a barbed shape is suspended from a parachute. The parachute is 15 1/2" on a side. The action of the first fire included in loading assembly ignites the illuminant and parachute against the body tube. When these pins shear the tail is ejected, the parachute is ejected, the payload. Simultaneously the first fire ignites the first fire composition and the parachute ignites the illuminant. No security clearance required to receive APPI. APUSAMCOM.

APPI No. AP-60R-2. Fuze, M1565 is approximately 2 1/2" L x 4 1/2" L, primed detonator fuze assembly consists of approx. 149 components, with approx. 76 sub-assemblies. Major components, Body, 2 1/2" L x 1 1/2" L with Yarn, 2 1/2" L x 1 1/2" L, threads, holes and slots, material, Spec. MIL-B-13351 or QQ-N-35. Ring, 1 1/2" L x 1 1/2" L with 1-15/16" 24 thread in OD with two 1/8" slots one side, material, aluminum 2024-T4. Spec. QQ-A-267 or QQ-A-268 or aluminum die casting. Spec. QQ-A-591. Plug, closing, 1 1/2" L x 1 1/2" L with various holes and counterbores, material, aluminum 2024-T4. Spec. QQ-A-267 or temper 351 of QQ-A-268 or aluminum die casting. Spec. QQ-A-591 Housing, 1.884" L x 1.625" L x 1 1/2" counterbore 1.167" with various holes and 1/8" thread inside one end, material, stainless steel 410. Spec. QQ-S-763. No security clearance required to receive APPI. APUSAMCOM.

APPI No. AP-167. Projectile, 105mm, Smoke, M5A2B1 consists of three major parts, Body, 14 1/2" L x 4 1/2" L, tapered nose and base. Nose and base are threaded to a depth of 1.417", approx. 3" up from base is machined and knurled for retaining band. Parola shaped with varying wall thickness. Material, hot forge, carbon steel, hot rolled, commercial forging quality, non-resulphurized, ASTM specification A273 or special bar quality, ASTM A273, alternate material, hot cup cold draw, steel, forging, nonresulphurized, specification MIL-S-10520, or specification MIL-S-11310 for cold forming. Adapter, 3 7/8" L, varying diameters from 2 1/2" one end to 1 1/2" interior and exterior machined in various steps with exterior brazing groove. Material, steel carbon, bar, special quality, bar nonresulphurized, ASTM specification A108. Blank Rotating Band, 4 1/2" L x 1 1/2" L with 201" wall thickness. Material, sintered iron, class 4, specification MIL-R-11073. A gilding metal rotating band, class B, annealed, specification MIL-B-20292, with a .007" wall thickness may also be used with a .007" band groove on the body. Adapter welded to body and brazed 360 degrees. Rotating band assembled to body and machined. Other parts include plastic dust cap and VCI paper. This item is considered very difficult to produce. No security clearance required to receive APPI. APUSAMCOM.

APPI No. AP-169. Bursting Casing M5 Assembly, M5A2B1 for Projectile 105mm, M60 Smoke, A teardrop design, approx. 13" L x 1.005" D to 1 1/2" L x 1 1/2" L, wall thickness of tube, .03" tube reinforcing at base end of tube, two side design, casing 12 1/2" L x .955" OD, wall thickness .03", straight tube closed at one end. Sleeve 1 1/2" L x 1 1/2" L, .03" wall thickness, closed at one end, .997" ID at other end, 360 degrees. Material: steel carbon plate, steel sheet and strip special bar cold finish, nonresulphurized, A108, steel tubing, J ASTM specification A519, to be silver brazed 360 degrees. This item must have a qualified metallurgist and produce in accordance specifications. 1 to receive APPI.

10mm,
245,
Q-A-
1.625"

from .0699 to .0455" at month. Machine cylindrically if necessary between D limits to blend with taper. Protective finish, finish number 7.2.1 of MIL-STD-171. Dichromate seal in accordance with Table III of Specification MIL-A-8625. Manufacturing firms bidding this item require a highly competent technical staff of engineers, metallurgists and tool design engineers to design, fabricate, and maintain precision tools for mass production of this item. This cartridge case is considered very difficult to produce to applicable specification. No security clearance required to receive APPI. APUSAMCOM.

APPI No. AP-111. Fuze, PD, M524A5, MPTS is 6.01" L x 2.408" max OD contains 64 components. Major assemblies and components thereof are Body and Striker Assembly consisting of 15 components containing Body, truncated cone 4.202" L x 2.408" max OD tapered to a minimum of .085" through a .22" basic radius, 2-12UNS-1A thread and a 1.6-20UNS-2B LH thread on the large end, bored and counterbored on ID, material, aluminum alloy rod, 2011-T3 or 2024-T4, ASTM-B211, alternate material, aluminum alloy die casting, 2014-T4, ASTM-B247, Spring, Striker, solid height .07" max, .407 max OD, advisory wire diameter .038", material, music wire, ASTM-A228, and Striker, 2.06" L x .762" OD with a .99" D shoulder approx. .257" D, material aluminum alloy rod, 2011-T3 or 2024-T4, an ASTM-B211, alternate material, aluminum alloy die forging, 2014-T4, ASTM-B247. Pull wire Assembly, consists of 3 components, Wire, Pull approx. 4" L with a Phi, Seaback Safety, 1.32" L, both components, .062" in diameter, material, music wire, ASTM-B228, and Pin, Plunger Safety, 1.56" L x .125" in D with a Number 4/111/40UNC thread, material, aluminum alloy .6061, Temper T-6, ASTM-B211. Plunger, 1.237" L x .998" max OD, various bores, counterbores, angular holes, radii, and a gear segment, material, brass, sintered metal powder structural parts, Class B, ASTM-B282, alternate material, free-cutting brass rod, half-hard, ASTM-B16. Arming Mechanism Assembly, a device to control arming time contains 41 parts, major components are Body, Arming Mechanism, 1.504" L x 1.509" OD, various holes, cavities, counterbores, counterbores and radii, material, aluminum alloy rod, 2011-T3 or 2024-T4, ASTM-B211, alternate material, aluminum die forging, 2014-T4, ASTM-B247, Drive Springs, approx. 38" L x .125" W and .010" thick wound to form 11 coils in a 1.25" D, torque requirements, material, steel carbon strip, 1095, spheroidize annealed type, Spec. QQ-S-777. Timing Device Assembly, contains 15 components consisting of wheels, pinions, balance, pallet, shafts, upper and lower frame rivets, Seaback Device Assembly contains 14 components consisting of front and rear frame, springs, shafts, levers, and pins, the material in the above two assemblies includes corrosion resisting steel wire, brass strip and rod, sintered brass, music wire and steel strip, Rotor Assembly, contains 4 components consisting of a step pin and Spring Rotor, .600" L x .939" OD with various drilled holes and counterbores, material, freecutting brass rod, half-hard, ASTM-B16, and Gear Timing, ring gear, 1.040" thick with 50 teeth covering 277 degrees of the .8375" OD, .8125 theoretical pitch diameter, material, brass strip, alloy number 6 or 8, hard, ASTM-B36, alternate material, leaded brass strip alloy number 4, 5, or half-hard, ASTM-B121, or freecutting brass rod, the size are Cup, Booster, 1.659" L x 1.48" OD with a 1.6-20UNS-A LH modified thread on the .079" on the side to .116" on the bottom, material, composition SG 100A or SC 84A, ASTM-B85, Liner, .020" material thickness, material, aluminum alloy sheet, 1100-0, ASTM-B209. The fuze must meet tests, pull test on seaback device and a plunger safety pin retention test. This item is considered difficult to manufacture. No security clearance required to receive APPI. APUSAMCOM.

APPI No. AP-112. Projectile, 155mm, M110 MP TS, consists of Body, Adapter, and Rotating Band. Body 22.84" L x 6.092" D nose section approx. 11.25" L tapered from 6" to 2.84" at nose end. Bottom of cavity counterbored 1.08" D x .75" D. Rotating band groove on outside diameter near base end, 2.5" 12 thread inside nose end. Material, S-10520 for hot cup cold draw or MIL-S-11310 for cold extrusion Mechanical Properties minimum 65000 yield strength 1% offset 15% elongation. Adapter 3.76" L x 2.84" D tapered on both ends inside and outside thread. Material Steel, Carbon ASTM-107 or ASTM-108. Rotating Band Gilding machined. The Adapter is threaded and silver brazed into nose end. Must withstand 100 PSI internal air pressure for 15 seconds without leakage. Complete assembly is phosphate coated and painted on outside diameter. Package 8 properties on a wooden pallet for shipment. This item is considered very difficult to procure according to applicable specification. No security clearance required to receive APPI.

APPI No. FA-50. Boxes Metal M19A1: Rensobal steel boxes have hinged covers, sealed by means of a rubber gasket, are constructed of metal and used for the packaging and protection of Small Caliber Ammunition. Clearance is not required for the APPI. Quantity planned for FY-67 procurement is 642000. Delivery schedule is 150000 per month beginning four months after award of the contract. No Government Furnished Property is expected to be used. Government drawings and specification will be available with the solicitation.

APPI No. FA-51. Thruster, M13: A device consisting of a gas-operated firing mechanism cartridge chamber and piston whose primary purpose is to impart a thrust in a known line or plane to a given travel. This item is considered a highly complex precision device. It is classed as a hazard item. The device is subject to rigid safety control during the course of manufacture. Drawing and specifications for the item will be available at the time of solicitation. Projected quantity is 350 devices - required delivery being nine months after the date of award of the device. No security clearance is required to receive the APPI. There is no Government Furnished Property requirements or Technical Manual requirements connected with the procurement of this item.

APPI No. FA-52. Metallic Belt Link M1 for Caliber .30: Links are made of steel, stamped to size, heat-treated, one-piece configuration, treated to prevent rust and subject to functional tests to assure satisfactory machine gun feeding. Quantity - The planned procurement quantity is 88343000. The delivery schedule is 10000000 per month - first delivery being 120 days after the date of award of the contract. No clearance is required to receive the APPI.

APPI No. MI-79. Main Sustainer M30A2 Motor with accessories, for the C-130. Approximate weight 100 lbs. Total length 83 1/2" long and 32 1/2" high. For National Stock Number assigned to this item is 1310-01-0010 APPI. USAMICOM.

APPI No. MI-63R1. CANCELLATION OF APPI. High Power Motor for the C-130. Approximate weight 100 lbs. Total length 83 1/2" long and 32 1/2" high. For National Stock Number assigned to this item is 1310-01-0010 APPI. USAMICOM.

APPI No. ME-40R2. Detecting Set, Mine, Anral Indication, 10 volt, direct current, metallic, portable, transistorized, with case. In accordance with MIL-D-23359, which is classified confidential. No security clearance required to obtain APPI. FSN 6665-684-2659. USAMEC.

APPI No. ME-45R2. Air Conditioner, 18000 BTU/HR. Base mounted, self contained, compact lightweight, air cooled. The refrigeration system shall be of the vapor cycle type employing monochlorodifluoromethane. The compressor-motor assembly shall be hermetic type in which the compressor and motor are enclosed in a single housing. There shall be no external shaft or drive end and the motor shall operate in a sealed atmosphere. The motors shall be rated minimum 240 volt, 3 phase, 50 and 60 Hz. The motor for the compressor shall be 1/2 HP, AC, 208 volts, 50/60 cycle, 3 phase, minimum cooling capacity 18000 BTU/HR and 12000 CFM rated capacity; minimum heating capacity 12000 BTU/HR at 60 CFM rated capacity. Cabinet shall be made of aluminum, enamel finish. The maximum weight of the air conditioner including the control box and a full charge of refrigerant and oil shall be 230 pounds. The air conditioner is intended for use in providing cooled or heated air to maintain adequate working temperatures in vans. Air conditioner may be installed indoors or may be exposed to the weather. In accordance with MIL-A-52344, FSN 4120-959-4453. USAMEC.

APPI No. ME-56R1. CANCELLATION OF APPI. APPI No. ME-56R1. Heater, Direct Type, Portable, published previously in the 7 June 1966 issue of Commerce Business Daily, is hereby cancelled by USAMEC.

APPI No. ME-74. CANCELLATION OF APPI. APPI No. ME-74. Detecting Set, Mine, Portable, Microwave, 16 volt D. C. Operating Power, with carrying case, published previously in the 1 March 1966 issue of Commerce Business Daily, is hereby cancelled by USAMEC.

APPI No. ME-103R1. Detecting Set, Mine; Truck Mounted; Anral and Visual Indication; 24 volt, DC operating power. Detecting set shall consist of a mine detector mounted on a 1/4 ton truck assembly; a carriage box assembly containing the search coil assembly; front end steering, boom, and transonic control panel assembly; hydraulic assembly; and millimeter panel assembly. The mine detector shall be mounted on a government furnished 1/4 ton, 4 x 4, M38A1 truck conforming to MIL-T-1374. Supplier shall make the necessary modifications to the truck for installation and modifications required in order to mount the mine detector. The mine detecting set is intended for

use over all types of terrain, streams, and salt water beaches for the location of buried metallic antitank and antipersonnel land mines. In accordance with MIL-O-51162 and Dwg. No. DL13200E 0150. FSN 6665-678-2439. No security clearance required to obtain APPI. USAECOM.

APPI No. MK-114. Heater, Duct Type, Portable. A gasoline burning, self-contained, ground portable heater, trailer mounted, having a nominal uncontaminated warm air output of 400,000 BTU/HR at a discharge temperature of 280 degree F. at an ambient temperature of minus 65 degree F. with automatic temperature control, which operates as an entirely self-contained heater using a gasoline engine power package. The government shall furnish a military design 1 1/2 HP, 4 cycle, gasoline engine (FSN 2805-714-8552, Model Number 1A08-11) and a heating mech, gasoline burning, 151000 in 50,000 BTU output (FSN 4940-475-1574, MI-11-52112). The heater shall consist of the following components: burner assembly, combustion chamber, heat exchanger, air system, fuel system, ignition system, heat control system, internal accessories, and external accessories. A type MA-1 trailer conforming to MIL-T-4608 shall be provided. Heater assembly is fully enclosed in a lightweight, substantially constructed metal cabinet or cabinets, which shall resist weather conditions. Overall dimensions approx. 20 1/2 inches wide, 49 1/2 inches in length and 26 inches in height. The dry weight of the heater with power package shall not exceed 280 pounds. The heater is intended primarily for use in ground heating aircraft engines and fridges, and secondarily, for use in ground heating maintenance shelters, portable hangars, and other similar inclosures. In accordance with MIL-H-4607A, FSN 4520-915-7789. No security clearance required to obtain APPI. USAECOM.

APPI No. AV-163. Generator, 30 Volt, Direct Current, Aircraft engine driven, Type GEU-5A in accordance with MIL-G-6162, Appl. UH-1 Aircraft. This is a QPL item. Interested concerns should contact Bureau of Naval Weapons, Washington, D. C. in order to have their product tested and qualified prior to solicitation. QPL No. 6162-14, FSN 6115-725-1790. No clearance required to receive APPI. USAECOM.

APPI No. AV-164. Cup, Lock, Bearing Retaining power turbine. In accordance with Procurement Package I-140-062-01, Appl. UH-1 Aircraft. This solicitation will be 100% set-aside for small business concerns. FSN 2840-587-7089. No clearance required to obtain APPI. USAECOM.

APPI No. 165. Glare Shield, Instrument Panel. Assembly includes aluminum alloy honeycomb, aluminum sheeting covered with fiberglass cloth, Type VIII, and wiring assembly, APPI, UH-1 Aircraft, FSN 1560-075-3385. No clearance required to receive APPI. USAECOM.

APPI No. 166. Panel, Protection, Electrical System, enclosed hermetically, molded plastic inclosure, aluminum panel, components, major components mounted on panel, Tepco Electric Corp. resistor, fixed, wirewound, Type No. T3 2W, 130 ohms, 1 pct, Raytheon Mfg., Semiconductor Device, Diode, Part No. CK843, Bourns Laboratories, resistor, variable, Part No. Bourns 160-1-201, Iron Fireman Mfg., Relay, Armature, Part No. R400-2-A-500, O/A dim., 2.40 in., H., 2.70 in., W., 3.05 in. deep, floor mounted in accordance with Lear Slegler P/N 50178-002, or Sundstrand Corp. P/N 26883 only. FSN 6110-838-0453. No clearance required to obtain APPI. USAECOM.

APPI No. 167. Pump, Hydraulic, variable delivery, APPI, UH-1 Aircraft, Vickers, Div of Sperry Rand P/N PVB044-2 or Bell Helicopter Co. P/N 204-076-006-1 is only identification available. FSN 1560-872-8798. No clearance required to receive APPI. USAECOM.

APPI No. AV-168. Lap Belt, Pilot and Co-Pilot, Appl. UH-1 Aircraft, Aerial Machine Corp. P/N SK8200, Atchison Leather Co. P/N 112662 and Bell Helicopter Co. P/N 205-070-749-1 is only identification available. FSN 1680-967-1831. No clearance required to receive APPI. USAECOM.

APPI No. AV-169. Shipping and storage container for UH-1B main rotor blades. In accordance with AVCOM Procurement Package No. 540-011-001-MUSC. This Procurement will be a 100 set-aside for small business concerns. FSN 8115-919-0176. No clearance required to receive this APPI. USAECOM.

APPI No. EL-138. Test Set, Radar AN/UPM-98A. A transportable test equipment designed to provide specialized facilities for performing maintenance, tests, and calibration adjustments on IFF interrogators, transponders, video coders, decoders, and associated radar video distribution systems, commensurate with the Improved DOD-AIMS standards. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-139. RF Signal Generator Set AN/URM-25. This is a portable, general purpose radio frequency generator designed for field use in the general maintenance of electronic equipment. It is used to test the sensitivity, selectivity, and audio response of receivers, to align RF and IF stages, and to provide a signal which can be used when measuring receiver gain and output power. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-140. Generator, Signal AN/URM-64. The test set provides accurately pulse modulated and continuous wave radio frequency signals from 900 to 2100 mcs for testing radio and radar receivers and other electronic equipment when such usage requires less than 0.8 milliwatts of rf power. Functionally, elect and mech interchangeable with AN/URM-64. Offers in substitution of new 3 wire pwr Cable Assembly, Power, Electrical CX-3135/U (6 feet 0 in.). No security clearance required to obtain APPI. USAECOM.

APPI No. EL-141. Generator, Signal AN/URM-70. Provides a test signal for servicing FM receivers in the 50 to 400 mc frequency range. No security clearance required to obtain APPI.

APPI No. EL-142. Rapid Interference Measuring Set AN/URM-85. For making quantitative measurements of radiated or conducted broad-band or carrier radio frequency interference over the frequency range from 150 kc to 1000 mc. No security clearance required to obtain APPI.

APPI No. EL-143. Test Set, Radio AN/URM-113. A special test set designed to test plug-in units in various radio sets. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-144. Generator, Signal AN/URM-127. Generates audio, supersonic and low radio frequencies within the range of 20 to 200,000 cycles per second. Used as a general test oscillator in the field for free point servicing of various radio equipments. Similar to, but, not interchangeable with Audio Oscillator TS-382F/U. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-145. Generator, Signal AN/URM-149. Provides a radio frequency signal for the purpose of aligning Radio Sets in the frequency range of 600 mc to 1850 mc. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-146. Test Harness, Radio Set AN/URM-157. Provides interconnecting facilities for the components of the Radio Set AN/ARC-102 and Radio Set AN/MRC-95 and associated equipment (Antenna Couplers) while under test. Controls the power to the AN/ARC-102 and AN/MRC-95 during test. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-147. Test Set, Electronic Circuit Plug-in Unit AN/URM-159. Provides testing facilities for the AN/TYA-19 and AN/SRC-23(V) radio frequency modules. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-148. Oscilloscope - AN/USM-182. A general purpose laboratory type oscilloscope designed to permit observation of a wide variety of signals by the use of Plug-In Amplifiers. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-149. Electronic Rotary Blade Tracker AN/USM-188. A precision device designed to indicate and measure out-of-rack conditions of helicopter rotor blades. The three major units of the blade tracker, are the Magnetic Phase Detector DT-291(C)/USM-188, P/N 1332-300-1, a magnetic pickup unit which supplies RPM and sequencing data to the computer, rotary blade displacement; the detector rotary blade displacement DT-290(C)/USM-188, P/N 5135-100, containing the optics and circuitry necessary to detect the exact time of intersection of each blade with two light beams; and the Computer, Rotary Blade Displacement CP-767/USM-188, P/N 5137-200, containing all controls necessary to operation and read-out of input data required for blade adjustment. Connection of each to the other is accomplished with appropriate cables. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-150. Indicator, Channel Alignment ID-292/PRC-6. A specialized multimeter used for measuring significant circuit voltages and currents in Radio Set AN/PRC-61. Voltage for operation are obtained from the radio set battery through the input cable which terminates in a plug that mates with the test jack in the radio set. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-151. Radiacmeter IM-9E/PO. Measures and indicates accumulated dose of X and gamma radiation which wearer has been exposed. One end of radiacmeter an optical eyepiece and other end is charging contact. Contains ionization chamber into which is mounted small electrometer. Scale calibrated in milliroentgens is mounted in manner that amount of radiation which wearer was exposed since charging of electrometer can be read directly by holding radiacmeter to light and looking into eyepiece. Radiac detector charger is required to charge electrometer. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-152. Radiacmeter IM-9A/UD. For detection and measurement of radiation. Indicates the accumulated amount of radiation to which the bearer has been exposed. No security clearance required to obtain APPI. USAECOM.

APPI No. AT-79R1. Engine Multi-Fuel W/Container. This Ord 570272 (Ord 570263) engine assembly was originally released in August, 1966. Provision of this revision is adjustment of quantities. FSN 2815-911-3645. No clearance required to obtain APPI. USATAC.

APPI No. AT-120. Transmission Assembly, Cross-Drive CD550-6A with Metal Membrane Container. This Ord 5763101 assembly is a major component of the power train for tracked vehicles and has the following characteristics: (a) for use with engines of 550 to 850 gross horsepower (b) combination transmission and steering unit for tracked vehicles (c) brakes are foot operated (d) spread ranges and steering hydraulically controlled (e) mounts crosswise in vehicle and drives tracks through output shaft flanges. Assembly consists of: (a) Transmission Cross-Drive Ord 8355530 (b) Container Ord 873296. SNL APP-Multiple FSN 2520-086-7792. No clearance required to obtain APPI. USATAC.

APPI No. AT-121. Cylinder Assembly, Hydraulic Brake Wheel. The Ord 7324707 cylinder assembly is a major component of the service brake system for the 1/4 ton 4x4 series trucks. This assembly consists of the following components: (a) cast body (b) bleeder screw assembly (c) rubber end bolts (d) aluminum pistons (e) rubber piston cups (f) return spring. SNL APP-Multiple, FSN 2530-918-0602. No clearance required to obtain APPI. USATAC.

APPI No. AT-122. Starter Assembly, Engine Electrical. The Ord 10951134 starter assembly is a 24 volt engine mounted component of the Continental LD 427, 6 cylinder multifuel engine. This assembly is waterproof and consists of the following components: (a) cover (b) case (c) commutator head (d) drive housing (e) armature (f) field coils (g) Bendix drive (h) antifriction bearings (i) controls (j) common hardware. SNL APP G742 (multifuel) FSN 2920-763-2346. No clearance required to obtain APPI. USATAC.

APPI No. AT-123. Starter Assembly, Engine Electrical. The Ord 1088581 starter assembly is a 24 volt engine mounted component of the GMC Model 302, 6 cylinder gasoline engine. This assembly is waterproof and consists of the following components: (a) cover (b) case (c) commutator head (d) drive housing (e) armature (f) field coils (g) Bendix drive (h) antifriction bearings (i) controls (j) common hardware. SNL APP G749 (A), FSN 2920-529-8460. No clearance required to obtain APPI. USATAC.

APPI No. AT-124. Generator, Engine Electrical. The Ord 1088998 generator is a major component of the electrical system for a V12, 4 cycle, air cooled, Model AVS1-1790 gasoline engine. This generator assembly is a 28 volt, 300 AMP, gear driven aircraft type consisting of following components: (a) drive gear (b) armature (c) field coils (d) commutator head assembly (e) steel shell (f) antifriction bearings (g) controls (h) terminals (i) lubricator fittings. SNL APP G298, FSN 2920-830-1293. No clearance required to obtain APPI. USATAC.

APPI No. AT-125. Engine Assembly W/Container. The Ord 5702670 engine assembly is a major component of the power pack for a tracked vehicle. This engine assembly has the following characteristics: (a) Model AVDS-1790-2A (b) type-90 degree V-type air cooled (c) 12 cylinders (d) bore-5.75 in (e) stroke-5.75 in (f) compression ratio-16:1 (g) MGS-2400 RPM (h) B11G-750 at 2400 RPM (i) MGT-1710 FT-LB at 1800 RPM (j) compression ignition. SNL APP-Multiple, FSN 2815-856-9005; 2815-064-6270; 2815-856-4996; 2815-679-4963. No clearance required to obtain APPI. USATAC.

APPI No. AT-126. Final Drive Assembly, Left and Right. The Ord 10864059 final drive assembly is a major component of the power train of tracked vehicle. This assembly consists of following components: (a) case (b) gear set-final drive (c) roller bearings (d) spaces (e) carrier (f) outer seal ring (g) oil seals (h) outer bearing cap (i) output shaft (j) input shaft (k) common hardware. SNL APP-Multiple, FSN 2520-678-4164. No clearance required to obtain APPI. USATAC.

APPI No. WE-243. Buffer Assembly P/N 110 10518, a small arms part. Assembly consists of at least 11 components parts. Certain requirements and tests exist during assembly. Supplier should have adequate machining facilities. Physical properties exist on components. FSN 1005-908-4141-A11B. No Security Clearance is required to obtain this APPI. USAECOM.

APPI No. WE-244. Swab, Cotton, Gun, Cleaning. P/N 5019316, a small arms part to be used on Cal. 30 and 7.62 MM Rifle and Machine Guns. Material to be used will be unbleached clean cotton cloth. Dimensions 2 9/16 inches square. Other physical requirements exist. No Security Clearance required to obtain this APPI. FSN 1005-288-3565-A101, USAECOM.

APPI No. WE-245. Swab, Small Arms Cleaning: 5.56MM, M16 and M16E1, a small arms part. P/N 11686408. Material, cotton, cloth, natural color, 1 3/8 inches square. Other Physical requirements exist. FSN 1005-912-4248. No Security Clearance is required to obtain this APPI. USAECOM.

APPI No. WE-246. Carrier Assy., Barrel, pertains to Cal. .50 Machine Gun. P/N C5504080, a small arms part. This assembly consists of numerous parts. Machining parts and physical properties required on components. FSN 1005-550-4080. No Security Clearance is required to obtain this APPI. USAECOM.

APPI No. WE-247, Cover, Canvas Overall, M120, P/N 77134630. This is a canvas cover for a 155 MM Gun. Manufacture must be in accordance with MIL-C-10632. Assembly regulations exist. FSN 1025-711-4630-C039. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-248, Handle Assy, Rod Cleaning, P/N C726115, a small arms part. This assembly consists of a swivel, handle and 2 pins. Machining and physical properties exist on component parts. FSN 1005-793-6761. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-249, Pin, Firing, P/N D6008879, a small arms part. A machined part made of steel, heat treatment required and also final protective finish required. FSN 1005-600-8879. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-250, Holster, Hip for .45 Cal. M1911A1 Pistol, P/N 7791466, a small arms part. Consisting of several component parts. Made of dyed leather that will not rub off. FSN 1095-592-6491. No Security Clearance is required for this APPI. USAWECOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated March 7, 1967 page 2 No. PSA 3778 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AT-127, Stand, Maintenance, Automotive Engine. The ORD 7950189 stand assembly is used to support an engine during rebuild or repair operations. This stand assembly has following basic characteristics: (a) castor mounted (b) floor jack assembly (c) 2600 lb rated capacity (d) 50 in. wide, 45 in. high, extendible to 110 in. long (e) accommodates in-line engine. Basic materials are steel pipe, flanges, plates and common hardware. SNL APP-Multiple. FSN 4910-795-0189. No clearance required to obtain APPI. USATAC.

APPI No. AT-128, Mounting Kit M14 Rifle. The ORD 8712407 kit assembly is used for mounting the M14 rifle in an upright accessible position in the drivers compartment of military wheeled vehicles. This assembly consists of following components: (a) brackets (b) spacers (c) catch assembly (d) reinforcement (e) common hardware. SNL APP-Multiple. FSN 2590-045-9611. No clearance required to obtain APPI. USATAC.

APPI No. AT-129, Inner Tube Pneumatic Tire, Truck & Bus, 9.00x20. The MS-35392-13 inner tube is a major component of the traction system for the 2 1/2 ton wheeled vehicles. This assembly has following characteristics: (a) size 9.00x20 (b) type TR-175A. SNL APP-Multiple. FSN 2610-269-7181. No clearance required to obtain APPI. USATAC.

APPI No. AT-130, Brake Cylinder Wheel. The ORD 8720473 cylinder assembly is a major component of the brake system for a 12 ton cargo trailer. This assembly has following components: (a) air chamber (b) diaphragm (c) springs (d) push rod (e) seals (f) yoke (g) common hardware. SNL APP-G750 BB M127A1C. FSN 2530-678-3332. No clearance required to obtain APPI. USATAC.

APPI No. AT-131, Battery, Dry Charged, 12 Volt, Type 21N. The MS-35100-1 battery assembly is used for starting, lighting and ignition purposes for wheeled and tracked military vehicles. This assembly has following characteristics: (a) automotive series (b) 12-volt 1st 6-cell (c) 45 amp-hr rating. This assembly consists of following components: (a) hard rubber or plastic case (b) positive lead plates (c) negative plates (d) active grid paste (e) separators (f) connectors (g) covers (h) vent plugs (i) terminal posts (j) baffle plates (k) battery hardware. Specification MIL-B-11188. SNL APP-Multiple. FSN 6140-057-2553. No clearance required to obtain APPI. USATAC.

APPI No. AT-132, Battery, Dry Charged, 12 Volt, Type 4D. The ORD 572655 battery assembly is used for starting, lighting and ignition purposes for a wheeled military vehicle. This assembly has following characteristics: (a) commercial series (b) 12-volt 1st 6-cell (c) 150 amp-hr rating (d) mfgs type designation-GB-19-D-12F. SNL APP C13B-J4C 14 Ton 4x4 (MAP). FSN 6140-184-3400. No clearance required to obtain APPI. USATAC.

APPI No. AT-133, Battery, Dry Charged, 6 Volt, Type 2H. The ORD 500902 battery is used for starting, lighting and ignition purposes for wheeled and tracked military vehicles. This assembly has following characteristics: (a) standard series (b)

6-volts (c) 3-cell (d) 120 amp-hr rating. This assembly consists of following components: (a) hard rubber or plastic case (b) positive lead plates (c) negative plates (d) active grid paste (e) separators (f) connectors (g) covers (h) vent plugs (i) terminal posts (j) baffle plates (k) battery hardware. Specification MIL-B-11188. SNL APP-Multiple. FSN 6140-050-0902. No clearance required to obtain APPI. USATAC.

APPI No. AT-134, Parts Kit, Drag Link Steering. The ORD 5703302 drag link kit is a major replacement component of the steering linkage for the M151 1/4 Ton 4x4 vehicle. This assembly consists of following components: (a) cotter pins (b) nuts (c) seals (d) lubrication fittings (e) hiler arm nuts (f) rod ends (g) link. SNL APP G838. FSN 2530-973-3188. No clearance required to obtain APPI. USATAC.

APPI No. MI-68R1, Overpack for Missile and other components—Structure consisting of a wire-bound wooden box, with 3 sets of internal intermediate wooden cleats for suspension media retention. Suspension Media consisting of 3 Polyethylene Foam saddles and 2 Polyethylene Foam end pads, separated from both ends of the missile by a 3/8" thick plywood platen. No security clearance required to receive this APPI. USAMICOM.

APPI No. MI-89, Launcher, Zero Length, Guided Missile, XM78E3 P/N 9098880 is a mobile supporting device from which the HAWK Missiles are aimed and fired. From one to three missiles may be fired from the launcher without reloading. The major assemblies of the Launcher are: a. Boom elevation actuator group—The boom elevation group is a hydraulic device which elevates or depresses the boom. b. Boom—The boom, rotatable in elevation, supports and secures from one to three missiles in the firing position. Electronics and hydraulic components are contained within the boom. c. The Boom Support—The boom support, rotatable in azimuth, provides support for the boom. Hydraulic components are mounted under the boom support which is raised by a hand-operated hydraulic system. No security clearance required to receive this APPI. USAMICOM.

APPI No. MI-81, Pallet, Loading and Storage, XM1E1 P/N 9196208 is a metal structure upon which from one to three assembled HAWK Missiles may be stored. It is normally mounted on a trailer and consists of three missile support arms joined to two skids with supporting structural members and two index fitting assemblies. Each missile support arm has its own missile latching and clamping assemblies. The pallet is constructed to be air transportable with missiles emplaced. The weight of the pallet is approximately 950 pounds. No security clearance required to receive this APPI. USAMICOM.

APPI No. WE-26R1, Section, Cleaning Rod, P/N 7266109. This is a component part of the .30 Cal. cleaning rod. It is a machined part made of carbon steel. Heat treatment is not required. FSN 1005-726-6109. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-22R1, Mechanism, Assy, Elevating, P/N 5574521. A part of the Mount, Tripod MG Cal. 50 M3. This assembly requires that the Manufacturer have adequate machining facilities. Tooling equipment required for component parts. Considered moderately difficult to manufacture. FSN 1005-557-4621. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-251, Housing P/N 8403261. This is a component part of the M79 and M92 Mount. It is a machined part of alloy steel, Fed Std. 66. Gear cutting facilities are required for the manufacture of this part. Certain physical properties exist. FSN 1015-219-8156. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-252, Housing Assy, Trigger, P/N 7269203. This is a part for the 7.62MM machine gun M60. It consists of 1 Frame Assy, 1 channel, and 4 Rivets. Machining parts are required and a protective finish must be applied after assembly. FSN 1005-608-5176. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-253, Trigger, Assy, P/N 7269212. This is a small arms part for the 7.62MM Machine Gun, M60. It consists of a trigger, pin and spring. No Security Clearance is required. FSN 1005-608-5183. APPI. USAWECOM.

APPI No. WE-254, Slide, Traversing Assy, P/N 7144232. This is a part of the M24A1 Mount. It consists of several parts which will require superlatives exist on components and certain requirements exist at the assembly of components. FSN 1015-714-4232. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-255, Knob, Windage, Rear Sight, .30 Cal M1 and 7.62MM M14 Rifles. This assembly consists of a knob, a ring, a nut, and a windage allowance. When assembled to the rifle, the knob must be capable of being operated by

the fingers. Material is steel. FSN 1005-73 No Security Clearance is required to obtain APPI. USAWECOM.

APPI No. WE-256, Bearing, Ball Thrust, 840-3009. This is a part for the M79 and M92 Mounts for the 106MM Rifle. It is made of 152100 Spec QQ-S-624. Heat treatment is required in manufacture of this part. FSN 1015-846 No Security Clearance is required to obtain APPI. USAWECOM.

APPI No. WE-257, Guard, Hand, P/N 77 This is a part for the Rifle 7.62MM, M1 consists of two parts, the wooden hand guard and a steel band. There are detent reinforcement (the limitation of the hand guard). Heat treat is required on the band. FSN 1005-856-2108 Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-258, Bolt, Breach, P/N 77 This assembly is for the machine gun Cal. 50 and consists of several parts. Suppliers must adequate machining facilities and be able to duct standard high pressure test cartridge. FSN 1005-857-0023. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-259, Pin, Firing, Belt Assy M P/N 11010376. This is a part of the 7.62MM machine gun. It is a machined part made of steel. Fed. Spec. QQ-S-624. Heat treatment is required with a finish grade after heat treatment. Shot pins required in accordance with MIL-S-13165. FSN 1005-872-4443. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-260, Brush, Chamber Clean P/N 8432358. This is a small arms part used on M16 Rifle. It consists of a core, wire, and a There are certain material and test requirements in the manufacture of this item. FSN 1005-1435. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-261, Rod, Cleaning, Small A P/N 1168455. This rod is used on the Rifle 5.56 M16. It consists of a handle Assy, 2 rod sect and a swab holder. Rod sections and swab handle shall be assembled by hand. All machining is required a protective finish. FSN 1005-990-2035. Security Clearance required to obtain this APPI. USAWECOM.

APPI No. WE-262, Crumination Tool, 1 7790769. This is an accessory for Rifle 7.62M M14. It consists of a handle, extension, head, pins and a blade. Machining of parts is rough. A protective finish must be applied. FSN 4933-7 0211. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. AV-170, Generator Set, Gasoline engine driven, 3KW, 28V, DC, wheel-mounted, special aircraft engine starting. In accordance with military specification G-52428. FSN 6115-475-002 No clearance required to receive APPI. USAWECOM.

APPI No. AV-171, Regulator, Voltage, 30 Vol aircraft direct current generator, Appl., multiple aircraft. This item is a qualified product item. Interested concerns should have their product tested and approved in accordance with QPL 6809. Contract Wright-Patterson Air Force Base, Ohio. FSN 6110-373-8091. No clearance required to receive APPI. USAWECOM.

APPI No. AV-172, Modification Kit, Personnel Armor, Appl., C11-47 helicopter. AVCOM drawing 1506-C11-47-300 applies. FSN 1680-947-9829. No clearance required to receive APPI. USAWECOM.

APPI No. AV-173, Sifter, Tail Rotor Shaft. Spined attachment, 4140 steel. Appl., UH-1 helicopter. AVCOM drawing 204-010-720 applies. FSN 1615-859-6111. No clearance required to receive APPI. USAWECOM.

APPI No. AV-174, Bolt, Tie Bar Outboard, Rotary wing head, corrosion resistant stainless steel, size 8 in. 1 1/4 in. dia. appl., C11-47 helicopter. FSN 5307-739-8541. No clearance required to receive APPI. USAWECOM.

APPI No. AV-175, Tank, Hydraulic Fluid, Aircraft. Appl., C11-47 helicopter. Identification by these part numbers only: Verbal P/N 1141S1642. Adet Division P/N 416220. FSN 1650-050-8349. No clearance required to receive APPI. USAWECOM.

APPI No. AV-176, Resistor Assembly. Used in conjunction with control assembly. Appl., C11-47 helicopter. Verbal P/N 1141S2032-3 is only identification available. FSN 5905-907-3866. No clearance required to receive APPI. USAWECOM.

APPI No. AV-177, Indicator, Pressure, Dial, 1 torque pressure scale, 0 to 50 PSI, 1 PSI graduated increments, finish of graduations, fluorescent letters, numerals and lineal increments, pointer data, clock hand type, fluorescent illuminated, incased, without instrument lamp socket, electrical data, AC, 28V, 400 cycles, single phase, connection data, electrical, 1, 3 pin contacts, and 10066C-10SL-3P, OJA dlm, 2-5/8 in. lg, 2 in. dia., clamp mfg., MIL-1 25578, Type MFC-3, Appl., UH-1 Aft. This is a Oklahoma City Air Material Area (OCNEC), Oklahoma, in order to have their product tested

and qualified prior to solicitation, QPL No. 25578-2, FSN 6620-581-2268. No clearance required to receive APPI, USAAVCOM.

APPI No. AV-178. Indicator, Pressure, Dial, 1 oil pressure scale, 0 to 100 PSI scale range, 5 PSI graduated increments, fluorescent letters, numerals and line increments, clock and hand pointer, fluorescent illuminated, increased, without instrument lamp socket, electrical, AC, 26V, 400 cycles single phase, 1 electrical connection, 3 pin contacts, and 10066C-10SL-3P, OA dim., 2-5/8 in. lg., 2 in. dia., clamp mtg., MIL-1-25438, Type MO-2 Appl., UH-1-Acft. This is a QPL item. Interested concerns should contact Wright-Patterson Air Force Base (SEFIP), Ohio, in order to have their product tested and qualified prior to solicitation, QPL No. 25438-2, FSN 6620-557-0582. No clearance required to receive APPI, USAAVCOM.

APPI No. AP-31R-3. Fuze, MTSQ, M564 w/Detonator and Relay loaded is approx 2.4" max D x 5.816" L, procured detonator and relay loaded, complete assembly consists of approx 166 component parts. Major components, Body, 2.46" D x 1.53" L with various counterbores, threads, holes and slots, material, brass, Specification MIL-B-13351 or QQ-B-637, Ring, Lock, 1.775" ID x .27" L with 1-15/16" 24 thread on OD with two .20 slots one side, material, stainless steel 416, QQ-B-763, Hend, 1.785" L, 1.610" OD tapers to approx 0.55", several counterbores and a .8125 -28NS -2B thread, material, aluminum alloy 2024, temper T4, Specification QQ-A-268, alternate material aluminum alloy die casting, Specification QQ-A-591, Adapter, 1.377" L x 1.00" in diameter, 1.00-20UNEF-2A thread one end with a .8125 -28NS-2A thread on opposite end, material, aluminum alloy 2024, temper T4, Specification QQ-A-268 or aluminum alloy 7075, temper T6, Specification QQ-A-282 or aluminum alloy die casting, Specification QQ-A-591, Cup, Booster, .825" L x 1.703" OD, 1.536" ID, .761" L, 1.600 -20NS -2B-LX thread in mouth of cup, material, aluminum alloy, 3003-N14, Specification ASTM-E209 or aluminum alloy, composition 6061F, Specification MIL-A-12545, Plug Closing, 1.655" D x .395" L with various holes and counterbores, material, aluminum 2024-T4, Specification QQ-A-267 or QQ-A-268 or Temper 351 or QQ-A-268 or aluminum die casting, Specification QQ-A-591, Housing, 1.884" D x 1.625" L, 1.67" counterbore 1.167" D with various holes and a 1.00" 20 thread inside one end, material, stainless steel 416, Specification QQ-S-763, Cup, Lower, 2.185" D tapered to 1.585" small end with various size holes and counterbores, OD is graduated from zero to 105, material, aluminum 2014-T6, Specification QQ-A-261 or 2024-T4, QQ-A-267 or 268, Body, 1.74" D x 1.123" L, various counterbores, precision holes 1.74" 20 thread on outside, also 1.60" 20 thread one end, material, brass, free machining, Specification MIL-B-13351 or brass, Composition 3, half hard, Specification QQ-N-35. Other small components such as gears, pinions, shafts, screws, plates, springs, discs, collar, pin, bushing, and "O" rings. Sub-assemblies and assembly must withstand a series of rigid tests including arming, non-arming, tilt, tumble, transportation-vibration, temperature-humidity, waterproofness, 40' drop, dynamic regulation at 6000 RPM so that timing error is 0.18 percent max from 2 to 100 seconds at the specified frequency ballistic tests also required. Manufacturing firms will require a highly competent technical staff of engineers, metallurgists, technicians, tool engineers to design and maintain precision tools for mass production of precision parts. Contractor shall provide and maintain an effective quality assurance system in accordance with Specification MIL-T-45208. This item is considered extremely difficult to produce in accordance with applicable specifications. No clearance required to receive APPI, AP - USAMUCOM.

APPI No. AP-34R-2. Projectile 4.2", M328 Smoke is made up of basically 6 components. Body, the prime component, is approx 16" L and is made of steel, non-resulphurized, special bar quality, Specification ASTM A107. The Body is tubular in shape with a closed end actually forming the base, with a diameter of approximately 4.2". The base of the body has a protruded, threaded boss approx 1" in diameter, 1/2" L. The Body indicates a forging process. The Vane is a metal stamping, approx 13-1/4" L and 1/16" thick, made up of steel strip, cold-rolled, temper number 4, finish number 1, ASTM Specification A109. The stamping consists of 16 holes and notches and the center section forms a circular holder for a burster casing. The ends of the short dimension of the stamping are formed in an "S" pattern. The Nose Adapter is of the same material as the body and is forged in a funnel type shape with a length of approx 2" and max D of 2-7/8". It is threaded on the large diameter bore and there are several machine steps internally with a minimum wall thickness of 1/4". The Burster Case is approx 13-3/4" L x Max D of 1-3/16", min D of 7/8". The material used is steel bar, cold-finished, non-resulphurized, ASTM Specification A108 with several alternates allowing steel, carbon plate, steel sheet and strip, and steel tubing, seamless. Alternate materials require silver brazing. This component is considered difficult to produce to specifications. The assembly of the metal

parts component consists of inserting the Vane into the Body then nailing the front of the projectile to dimension. The Nose Adapter is then inserted and brazed. The Burster Casing is shipped outside the Body to be press fitted at the loading plant. Two additional components, both Protector Cans, one for the rear to protect the thread boss and the other for the nose to insure cleanliness and protect the inside nose threads. The material is plastic Type I and 3 of MIL-C-52078, approx 1/32" wall thickness. The usual painting requirements apply and this entire item is considered difficult to manufacture to specifications. No clearance required to receive APPI, AP-USAMUCOM.

APPI No. AP-38R-1. Fuze, Grenade, Hand, M-204A2 (Loaded) This item consists of (11) components and (5) assemblies. Body, approx 2.3" H x .81" W x 1.7" L, mail, zinc base alloy die casting, AC40A or AC41A, ASTM B86 or aluminum alloy, die casting, ASTM B85. Lever, formed shape approx 4.0" L curved section by right angled lip section approx 1.7" L x 24 Ga thick, mail, stl, strip, CR, temper 3. Pull ring Assy (2) components. Cotter pin, stl wire, type B, 1-1/8" L. Ring, Pull 1 1/4 coils, close wound, 1 1/4" D x .106" D mail, stl, wire, WD1020, Washer, .75" OD x .52" ID x .078" thick, mail, rubber, vulcanized class RS910AF2. Detonator Assy, (4) components. Case, detonator, 1.78" L x .243" OD x .035" wall thick, mail, Al, alloy, strip, 5052 ASTM-B209, Charge, Igniter - dead sphygmate, Charge, Upper - Lead azide, lower - ROX type A or B, or PETN, Class 4. Primer Holder Assy consisting of (2) components. Holder, Primer, .472" D x .150" W with concentric ctr holes .173 and .10" D. Primer, Percussion M42 Assy, .1756" D x .119" L with (3) components, cup, anvil, and cover. Charged with PA-101 primer composition or alternates. Striker Assy consisting of (4) components. Striker, hinge shape, .494" L x .28" H x approx .79" L, mail, stl, strip, ASTM-A-109. Point, Striker, 5/16 D x .25" L, Mail, stl bar, 1117, 1113, 1120, cold finished, ASTM-A108. Pin, Hinge, .67" L x .157" OD, mail, stl, bar, 1018 or 1020, cold finished, ASTM-108. Spring, .42" L x .28" D, stl, wire, .04" O, music, ASTM-A228. Protective finish, cadmium or zinc plate. Manufacturing firms bidding this item should be technically staffed with engineers, chemists and tool designers familiar with pyrotechnic manufacturing processes. This item is considered somewhat difficult to produce to Ordnance standards and specifications. No clearance required to receive APPI, AP-USAMUCOM.

APPI No. AP-40R-1. Case, Cartridge, 105mm, M14B4, MPTS Assembly. This cartridge case is 4.211 max OD x approx 14.64" L, 3/31 components, Body, 14.142" L x 4.211" max OD at mouth, material, steel, 1007 to 1020, cold-rolled, finish No. 1, Specification QQ-S-698, .024 - .006" thick. Body to be wrapped from a trapezoidal blank so as to provide three thicknesses of metal at base and one thickness at the mouth, with overlap at mouth/. Base, 4.688" OD x .55" thick with step diameter 4.344" x 372" W and centered primer case hole .546 ID with .63" counterbore, material, steel, special bar quality, ASTM Specification A107. Collar, 4.04" OD x .35" thick, formed ring, 2.56" ID, with V-notch at bottom and angled lip, material, steel, special bar quality, ASTM Specification A107. The three 3/31 items, phosphate coated and varnished prior to assembly. This item extremely difficult to manufacture to applicable specifications. Manufacturing firms bidding this item will require a highly competent technical staff of engineers, metallurgists and tool design engineers to design, fabricate and maintain precision tools for mass production of this item. No clearance required to receive APPI, AP-USAMUCOM.

APPI No. AP-68R-2. Projectile, Body and Band Assembly, WP, M375, 81mm, consisting of two components. Body, 10" L, varying in outside diameters from 2.595" at nose to 3.115" on bourrelet to 1.705" at the base, varying wall thickness .235" on bourrelet, .20" at mid-section, .185" at base section, to accept press fit burster casing, threaded externally at base to accept fin assembly, outside diameter of body grooved 360 degrees to accept obturating band, material, steel, non-resulphurized, carbon bar, hot-rolled, special quality, ASTM Specification A107, alternate material, steel, non-resulphurized, Specification MIL-S-11310, yield strength 60,000 PSI, 1 percent offset, 12 percent elongation. Band Obturating, 3.500 OD x .187" thick, ID 2.895", six 60 degree x .037" D grooves equally spaced inside of band, material, pipe, plastic, Specification PA-PD-2521. Firms bidding this item must have qualified metallurgists, chemists and tool designers to fabricate this item in accordance with applicable specifications. No clearance required to receive APPI, AP-USAMUCOM.

APPI No. AP-91R-1. Fuze, Grenade, Hand Practice, M205A2 (Loaded) This item consists of (11) components and (5) assemblies. Body, approx 2.3" H x .81" W x 1.7" L, mail, zinc base alloy die casting, AC40A or AC41A, ASTM B86 or aluminum alloy, die casting, ASTM B85. Lever, formed shape approx 4.0" L curved section by right angled lip section approx 1.7" L x 24 Ga thick, mail, stl, strip, CR, temper 3. Pull ring Assy (2) components,

Cotter pin, stl wire, type B, 1-1/8" L. Ring, Pull 1-1/2" coil, close wound, 1-1/4" D x .106" D, mail, stl, wire, WD1020, Washer, .75" OD x .52" ID x .078" thick, mail, rubber, vulcanized class RS 910AF2. Detonator Assy, (4) components. Case, detonator, 1.78" L x .243" OD x .035" wall thick, mail, Al, alloy, strip, 5052 ASTM-B209, Charge, Igniter - dead sphygmate, Charge, Upper - Lead azide, lower - RDX type A or B, or PETN, Class 4. Primer Holder Assy consisting of (2) components. Holder, Primer, .472" D x .150" W with concentric ctr holes .173 and .10" D. Primer, Percussion M42 Assy, .1756" D x .119" L with (3) components, cup, anvil, and cover. Charged with PA-101 primer composition or alternates. Striker Assy consisting of (4) components. Striker, hinge shape, .494" W x .28" H x approx .79" L, mail, stl, strip, ASTM-A109. Point, Striker, 5/16 D x .25" L, mail, stl, bar, 1117, 1113, 1120, cold finished, ASTM-A108. Pin, Hinge, .67" L x .157" OD, mail, stl, bar, 1018 or 1020, cold finished, ASTM-108. Spring, .42" L x .28" D, stl, wire, .04" D, music, ASTM-A228. Protective finish, cadmium or zinc plate. Manufacturing firms bidding this item should be technically staffed with engineers, chemists and tool designers familiar with pyrotechnic manufacturing processes. This item is considered somewhat difficult to produce to Ordnance standards and specifications. No clearance required to receive APPI, AP-USAMUCOM.

APPI No. AP-111. Projectile, 81mm, Illuminating, M301A2 consists of 4 assemblies and 6 additional components. 14.335" L x 3.18" max D, cup and disc assembly, 3 components, cup, pull-cord, 2-1/8" D x 5/8" H x .021" wall thickness, material, box-board sheet, Spec. MIL-B-20467, Disc, coupling, 2.966" D x .067" thick, 4 point star embossed in center with eyelet center hole, material, steel strip, temper No. 2. Spec ASTM-109, Eyelet, rolled flange, .143" D x .185" H x .012" thick, procured from Edwin B. Simpson, part No. A557, alternate United Shoe Machine Co., part No. SE66, Cup, parachute (2 each) cup segment, 2.76" D x 1/2" D x 1.76" W with V notch near center line on straight edge of segment, material, boxboard, sheet, Spec. MIL-B-20467, Disc, parachute, 2.84" D x 1/16" thick, material, chipboard, sheet, Class 2, Spec. UU-C-282 Pin, shear (4 ea.) 1/8" D x .24" Spec. UU-C-282 Pin, shear (4 ea.) 1/8" D x .24" L with cone shaped point .07" L, material, wire, L with cone shaped point .07" L, material, wire, brass, quarter hard, alloy No. 6, Spec. ASTM-B134 alternate brass, rod, quarter hard, Spec. ASTM-B16, Spacer, (2 ea.) parachute, circle seg, 1.459" radius x 1.455" H x 2" W, material, strip, temper No. 2. Spec, ASTM-A109, Plug, effective, product of Protective Closure Co., Ca No. DWH-12-060 or approved equal, Plug, effective, National Aeronautical Standard, NAS 75, Projectile, (4) components. Tube, body 9.1" x 3.138" D, with varying D, material, steel tub x 3.138" D, Spec. QQ-T-830, Adapter, 3.13" OD to flange, 2.945" body OD x .625" W, with 2-4-18 internal thread, material, steel bar, Spec. AST A108, Cone, tail, 3.16" max OD reduced to 1.1" D opposite end with .8" 16 NS thread, varying wa thickness, material, steel bar for hot forge, Spec ASTM -108, alternate, steel, Spec. MIL-S-11310 for cold forming process, Pin, adaptor, .25" L x .125" D with tapered end, material, steel, bar, 1010 to 1020, Spec. ASTM-A-108, Illuminant Assembly, 12 components, 5.5/16" L x 2.835" D, Case loading assembly, support, charge, 2.43" D x .03" thick with .38" center well 12" D, material, steel, strip temper 4. Spec ASTM-A-109, Case, 2.835" D x 5.5/16" L x 2.716" ID, material, boxboard, sheet, Spec. MIL-B20467, Charge, First fine composition, one increment, Illuminant composition, increments, fire clay end seal, Disc, top, 2.82" x 1.16" thick, material, chipboard, sheet, Class 2. Spec. UU-C-282, Disc, Quickmatch No. 1 Sp, .075" thick, material, steel, temper No. 1 Sp, ASTM-A109, Spacer, Quickmatch 2.932" D x .3" thick, material, felt, hair, sheet, Spec. MIL-F-1353, Ring, Filler, 2-7/32" D x 11/16" thick with 1 center hole, material, wood soft, commercial alternate, plywood, commercial, Sleeve, oval, .37" L x .226" W x 7/16" thick, material, copper, zinc plated, commercial, procurable from National Telephone Supply Co., microspiral oval sleeve Part No 28-2-G, Suspension Wire Assembly, Cable, steel preformed 3/32" D, 7 x 19, commercial galvanized approx. 28 1/2" L, military standard ball end locked on end of cable and 750 pounds tension test applied to the assembly. Cup, Suspension 2.44" OD x .75" W with .37" diameter center spherical well, material, steel strip, temper No. 1, Spec. ASTM-A109, Disc, 2.915" D x .12" thick 4 point star embossed in center with cable center hole, material, steel, strip, temper No. 2, Spec ASTM-A109, Rivets, six military standard, Nails 6 No. 18 x 1/2" L, flat head, steel, commercial Quickmatch, type II, Class A, 3 required, Approx. 6" L Spec. JAN-Q-378, parachute Folding Assembly, 43" across point to point of parachute Disc, separator 2 7/8" D x 1/16" thick material chipboard, sheet, Class 2, Spec. UU-C-282, Parachute Assembly, 3 components, Gore, (8 ea.) bars equals 20", equal sides cut to triangular point 24" base to point (equilateral triangles) Crown, 3 D, material, gore and crown, Parachute Cloth Type D, Spec. PA-PD-76, stitched with nylon thread Spec. MIL-T-7807, Shroud lines, (8 ea.) approx. 45

reinforcing, 2 1/4" W. cloth roll, length as required, line shroud, 126 glass fiber sleeving, Cord, shroud (8 each), 99" L. material, glass fiber spool, braided cord, commercial, Segment, parachute, (16 each) material, cloth, balloon finished, cut on bias, Plate, shroud, 3" OD x 16" thick with center holes and 16 shroud holes, material, aluminum alloy bar, 2024-T4, or sheet 2024-T3, Parachute Holder Assembly, 5" D x 5-3/8" H, material, sheeting, cotton, Type 5, Class I and bottom with lab. eyelets, pull cord, Miscellaneous closing plug, lower support, split washers, parachute wrapper, Manufacturing firms bidding this item should have a technical staff consisting of engineers, chemists, technicians, metallurgists and tool design engineers to design and maintain precision tools to produce this item by mass production methods. This item has pyrotechnic composition and is considered extremely difficult to manufacture to government specifications. No clearance required to receive APPI, AP-USAMUCOM.

APPU No. AP-115. Protective, 155mm, Illuminating, M485 consists of a (1) Metal Parts Assembly, (2) Expelling Charge Assembly. (3) Parachute, Drogue and Canister Loading Assembly, and a number of individual components. (1) The Metal Parts Assembly consists of (a) a Body made from steel, carbon, billets for forgine. Spec ASTM A273, 1050, 23.32" L 6.692" max OD with rotating band cast and abruting band seal, tensile strength 20,000 min., yield point 100,000 min., (b) Plug, base made from steel; grade composition 1045 ASTM Spec A108, 5.38" max DD x 1.02" W, (c) Rotating Band Blank, gilding metal, Class B, Spec, MIL-R-20292, 6.116" ID x 6.60" OD x 1.07" L, (d) Band Obstructor, material centrifugally cast clear aluminum, composition A, type I, Spec, MIL-M-20693, 9.22" ID x .175" wall thickness x .375" W (2) The Expelling Charge Assembly is made from (a) the Cover, Expelling Charge 1.90" D x .020" plastic polyethylene sheeting, type 1, Class L, grade I, Spec. L-P-512 (b) Cup, Expelling, Charge, 1.60" L x 1.48" ID at mouth with .025" wall thickness with flanged end; material, plastic, polyethylene, Type I, Class L, grade I, Spec. L-P-230. The charge, expelling is 95.0 plus or minus 1.0 grams of black powder, class 3, 5 spec, MIL-P-223. (3) The Parachute, Drogue and Canister Loading Assembly consists of (a) Parachute, Drogue, Canister D made from 2 crowns, 6 gores, 13 oval leaves, 12 eyelets, and 6 shroud lines, (b) Shroud, rope, steel, MIL-W-1511, .125" D, (c) Canister Loading Assembly consists of (1) Canister Metal Parts Assy which includes a Canister steel tube, round, seamless, grade 1020 steel, 1025 ASTM-A519, 14.62" L x 4.55" max OD x 2.219" ID, (b) Fin 9.69" L x .022" thick curved 1.025" radius, made from steel, strip, cold rolled, No. L temper, Spec. ASTM-A109, (c) Nose, Canister, Steel, grade 1015 to 1020 ASTM A107, 1.19" max L x 4.250" max D with 1.910" hole; held to the canister with (d) Pins, Shear, 1015 steel, bar, round, cold finished, comp. 1117, 1.025" L x .38" D, (e) base, Canister Loading Assembly consisting of Base, Canister (2) material, 1015 steel, bar, cold finished, comp. 1020 9r 1025 per inch thick, semicircular shape 2.280" radius, (3) Swivel, Canister Assembly consisting of a Swivel; Housing, swivel; Pin swivel; 11 ball bearings (2) Delay Holder Loading Assembly made of (a) Delay Holder loaded with 2 delay trains of 5 increments of (b) Powder Ignition, Gnsless, composition MIL-M-21383 (2nd-4th increments) of Black Powder, MIL-P-223 (5th increment). The delay holder is screwed into the nose, canister, beneath the delay trains is located an (3) Expelling Charge Assembly, Secondary loaded with 10.6 grams of black powder, MIL-P-223 class 3 glazed and 7 grains of black powder MIL-P-223 class 2 glazed, within the Metal Parts assembly is the (4) Parachute, Main and Candle Loading Assembly consisting of (a) Parachute Main 100 inch made from

APPI No. EA-6R1. (Revision Nn. 1 to APPI Release No. 6, 6 Apr 65) Agent , Riot Control, CSI (Chemical Name: O-Chlorobenzylisonitrile) CSI is a white crystalline powder. It has a minimum purity of 96 percent, is insoluble in water and ethanol but soluble in methylene chloride. The pure crystalline form (identified by symbol CS) is used as filling for burning type grenades and munitions. A mixture of 95 percent of the crystalline agent and 5 percent of silica gel aerogel (identified by symbol CSI) is used as filling for burning-type grenades and in bulk irritant agent dispersers. This Irritant Chemical Agent will cause severe but not permanent physiological effects such as extreme burning of the eyes, coughing, difficulty in breathing and chest tightness. Heavy concentrations will cause nausea and vomiting in addition to the above effects. Protection required is provided by protective mask and clothing. No security clearance is required to obtain APPI EA-USAMUCOM.

APPI No. FA-54, Bail Bearing Actuator Assy.
J/N FD20804. This motor device actuates the
unip of the M8 Remover. This is a component
of the M8. Drawings and specifications for
this item will be available at the time of solicita-
on. Projectil quantity is 75 devices - required
delivery being nine months after the date of award
of the device. No security clearance is required
to receive the APPI. There is no Government
Furnished Property requirements or Technical
staff requirements connected with the procure-
ment of this item. FA-USAMUCOM.

PPI No. FA-56. Projectile 20MM Target Prac-
 tice is a projectile used for target practice by
 U.S. Air Force in their M39 and M61 Guns.
 planned procurement quantity is 7,000,000. The
 very schedule is 100,000 per month--first de-
 livery being eight months after the date of award
 of the contract. Drawings and specifications for
 item will be available at the time of solicita-
 tion.
 No security clearance is required to receive
 APPI. There is no Government Furnish-
 ing requirements or Technical Manual require-
 ments connected with the procurement of this item.
 ISAMUCOM

PI No. EL-153. Teletypewriter Set AN/GOC-
Receives and sends messages on land. No se-
clearance required to obtain APPL. USAF.

APPI No. EL-154. Distributor-Transmitter Set. Teletypewriter AN/GGC-9 and AN/GGC-9C. Used for duplex one-way transmit operation of teletypewriter. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-155 Radio Set AN/GRC-50() (V). A complete, compact, rugged, lightweight radio relay set whose major operating components may be used either as a terminal or modulation frequency patch repeater for intermediate or forward area systems. The radio shall provide simultaneous two-way (duplex) transmission over eight jumps in tandem. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-156 Radio Set AN/GRC-143() Utilizes the tropo scatter mode of propagation to transmit 12/24 audio channels by frequency division multiplexing or 12/24 audio channels by pulse multiplexing. Dual diversity with IF combining is used in reception to enhance circuit reliability. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-157. Radio Set AN/GRC-144(). Utilizes the line-of-sight mode of propagation to transmit up to 120 audio channels of frequency division modulation traffic or up to 96 audio channels by pulse code modulation. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-158. Message Center AN/GSQ-50. Provides complete facilities for receipt, sorting and distribution of mail as well as providing other message center functions. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-159. Radio Set AN/MRC-95 and AN/MRC-95 (). A high frequency, Mobile Radio Set that provides reception and transmission of radio frequency within 2 to 29,999 mc freq. range. Provides direct reading frequency control in 1-KC increment throughout the frequency range. Timing, including antenna circuits, is fully automatic. Modes of operation furnished includes upper or lower sideband, compatible AM voice, CW telegraph. A mobile radio set. Provides reception and transmission of radio frequency signals within the frequency range of 2 to 29,999 mc. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-160. Operations Center, Communications AN/MSC-31A. A field communications operations office required by the signal operations officer to plan, engineer, and control an area-type communication system. Designed to be transportable by air or vehicle. NOTE: One way interchangeable with previous versions. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-161. Operations Central AN/MSC-32A. A field communications operations office required by the signal operations officer to plan, engineer, and control an area-type communication system. Designed to be transportable by air or vehicle. NOTE: One way interchangeable with previous versions. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-162. Radio Set AN/PRC-62(). A man packed set which provides communication between combat units operating in jungle, desert or other areas. The set is continuously tunable in one (1) kc steps over the frequency range of 2 thru 29,999 mcs, thus providing 27,999 channels. This equipment is capable of operation while being transported. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-163. Radio Set AN/PRC-74(). Contains the receiver-transmitter and necessary accessories for providing a man-pack portable single sideband medium high frequency receiver transmitter. It provides single sideband (SSB, USB) voice and tone modulated telegraphy (CW) transmission and reception in the frequency range of 2 to 11,999 mc in 1 kc steps. Rated power output is 15 watts peak envelope power (PEP). No security clearance required to obtain APPI. USAECOM.

APPI No. EL-164. Radio Terminal Set AN/TRC-80 and AN/TRC-80 (). Provides duplex FM communication of one voice and one teletype channel by means of tropospheric scatter, diffraction, obstacle refraction or line of sight transmission. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-165. Radio Terminal Set AN/TRC-90A. Provides full duplex FM SHF communication with the capability of 24 4KC voice channels, 16 full duplex narrow-band TTY channels, one 3 KC voice and TTY service channel and a HF radio capable of accepting one voice frequency channel. Propagation is by means of tropospheric scatter, diffraction, obstacle refraction or line of sight transmission. 2W/4W capability and 20 cycle ringers are available for all 24 channels.

NOTE: One way interchangeable with AN/TRC-90. AN/TRC-90A has ring through capabilities and 2W/4W capabilities for all 24 channels. Components differ. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-166. Radio Set AN/TRC-103 and AN/TRC-103 (). Capable of multi-channel full duplex operation in the specified base-band spectrum of 12-1360 kc in the frequency range of .753 to .985 gc, using either troposcatter or line of sight propagation. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-167. Radio Terminal Set AN/TRC-129 and AN/TRC-129(). Provides full duplex FM SHF communication with the capability of 24 4KC voice channels, 16 full duplex narrow band TTY channels, one 3 KC voice and TTY service channel and an HF radio capable of accepting one voice frequency channel. Propagation is by means of tropospheric scatter diffraction, obstacle refraction or line of sight transmission. 2W/4W capability and 20 cycle ringdown is provided for all 24 channels. The set has the capability of being connected in quad space, frequency diversity or dual space diversity. NOTE: One way interchangeable with AN/TRC-90 or AN/TRC-90A, similar to AN/TRC-90B but not mechanically, functionally interchangeable. Basic radio and multiplex equipment is identical to the ANTRC-90B, except that the modules for the E and M signaling, and 48 channel options in the multiplex are not supplied. The antenna is the same as that used in the AN/TRC-90A. Functionally the system performance over a circuit does not match that of the AN/TRC-90B because of the difference in the antenna sizes. This system is not mechanically interchangeable with the AN/TRC-90B because of different methods of storage and transportation. No security clearance required to obtain APPI. USAECOM.

APPI No. ME-1R2. Laundry Unit. Trailer Mounted. This is a complete self contained field laundry unit mounted on a 2 wheeled trailer with a capacity of 120 pounds (dry weight) of laundry per hour, equipped with an air compressor, washer extractor assembly, water heater, water pump, drying tumbler, and a gasoline engine drive generator set. Air compressor shall be electric operated 208 volts, 60 cycle, 3 phase. Washer extractor assembly shall be driven by a 50 degree C temperature rise squirrel cage induction motor, 5/8 HP, 1650 rpm, 208-230 volt, 60 cycle, 3 phase. Hot water heater shall be capable of maintaining a 70 degree F water temperature differential between the inlet and outlet water connections and equipped with a fuel pump capable of supplying fuel at 160 psi pressure with a safety valve closed and burner shall operate at 1500 btu's per hour without evidence of smoke or soot. A centrifugal, single stage pump shall be capable of 20 gpm, 65 to 70 feet total head, and shall be required net positive suction head less than 4 feet when operating at 345 rpm. Pump shall be driven by an electric motor, 3/4 HP, 208 volts, 60 cycle, 3 phase, 3450 rpm. Orving tumbler and air heater assembly when operated with gasoline, without garments and with thermostat set at 250 degrees F shall maintain this temperature within plus or minus 5 degrees. Washer motor shall be a 40 degree C temperature rise squirrel cage induction motor, 1 HP, 850 rpm, 208-230 volt, 60 cycle, 3 phase. Unless otherwise specified, the Government will furnish the following: A 2 wheeled trailer chassis, ORD model M-1536, 2 1/2 ton capacity; A 10 KW, air cooled gasoline engine driven generator set, ac, 120-280 volt, single and 3 phase, 60 cycles, model SF10.0; Operational, maintenance and parts manuals. The unit is designed to take water from streams, rivers, lakes, etc. and heat it for laundering purposes. Unit shall be capable of decontaminating personal clothing from CW and BW agents and radio active materials. This complete mobile laundry unit is to provide laundry service to field units and hospitals. In accordance with MIL-L-0040635A. No security clearance required to obtain APPI. FSN 3510-753-2895, USAECOM.

APPI No. ME-6R2. Grader, Road, Motorized. Heavy duty, diesel engine driven, pneumatic tired, 6 wheeled, 4 driving rear wheels, 2 steerable front wheels, with leaning front wheels. Operable by one man for general construction work such as coarse and fine grading, low and high bank cutting, scarifying, and flat and V-ditching. Grader shall grade forward or reverse. All parts of the grader shall withstand the full power of the engine at all gear ratios and under all working conditions. Grader moldboard shall operate in all positions without blade chatter, weaving, rocking, or other actions not under complete control of the operator. Grader shall be furnished with a scarifier. When specified, grader shall be furnished with a winterized system, including a cab, that will permit efficient heating and starting, battery heating, personnel cab heating, window defrosting, and equipment operation at any ambient temperature from minus 65 degrees F through plus 125 degrees F. The nonwinterized grader shall perform in any ambient temperature from plus 125 degrees F to minus 25 degrees F. An industrial type diesel engine, including a 40 ampere generator, a charging receptacle for emergency starting and battery charging, a housing, fuel tank and governing system conforming to MIL-E-11276 shall be provided. Final drive shall be on the 4 rear wheels arranged in tandem, 2 on each side. Tandem frames shall be

mounted on a pivot about the driving axle so that the equal weight is carried on all 4 wheels when operating over rough terrain without affecting the evenness of the blade cut. Drive chains, sprockets, gears, and bearings in connection with the drives shall be fully enclosed in dust proof, oiltight housings. Tandem oscillation shall be not less than 20 degrees from the horizontal in either direction. Grader shall be equipped with a 24 volt electrical system, headlights, floodlights, taillights, blackout lights and reflectors. Moldboard assembly, including moldboard circle, the 12 ft lg hydraulic controlled blade, and adjusting mechanism shall be attached to the frame by a swivel hitch. A pintle hook conforming to MS5118 shall be affixed to the rear of the grader and a tow hook shall be affixed to the front. Commercial standard wheels and rims shall be used and tires shall conform to Federal Specification ZZ-T-381. Lifting and tiedown attachments shall be provided. Repair parts, maintenance tools, and accessories shall be included with the shipment of grader. Before assigning any welder to do manual welding work, contractor shall provide certification that welder has passed approved qualifications tests. Graders are intended to be used primarily for construction. In accordance with MIL-G-804C, Amendment 1, Type 1, Size 3. FSN 3805-261-5826. No security clearance required to obtain APPI. USAECOM.

APPI No. ME-7R2. Crane-Shovel, Truck Mounted 20 ton, two engine drive 3/4 CU YD shovel capacity, 3/4 CU YD backhoe capacity. The crane-shovel shall consist of a revolving power unit superstructure with front end operating equipment mounted on a heavy duty, truck type carrier. Revolving superstructure shall be convertible for use as a crane, clamshell, dragline, pile driver. Conversion to any of these uses shall be effected without the use of special tools and without the installation of additional shafts, drums, clutches or parts. Each crane-shovel shall be complete in all details. Crane-shovel shall disassemble into units that can be transported by air or rail. The overall dimensions and weights shall be 60,000 lbs, max. GVW, 120 ins. max. width, 150 ins. max. height, 27 ft. max length chassis. One engine shall be provided to operate the carrier, another engine shall drive the revolving superstructure. Both engines shall be industrial type gasoline engines conforming to MIL-E-11275, group II, except the generators and voltage regulator shall conform to MIL-G-46795. A separate electric cranking system shall be provided for each of the engines. Two 24 v electric systems shall be provided, both systems shall be completely independent of each other and interconnecting between the two systems shall be possible. Crane-shovel shall be capable of towing military M345 trailer loaded to a gross weight not less than 30,000 lbs. Wheel drive shall be powered from engine through gear driven axles three axles, with two rear (tandem) axles and single front axle, six wheels, six driven wheels, two steerable wheels. A pintle hook shall be mounted on the rear and a towing attachment on the front of the crane. A water cooled, engine lubricated, 12 cfm at 1,250 rpm, air compressor of the automotive type driven by the engine shall be furnished. Headlights, parking and tail combination lights, running lights, blackout lighting turn signals, hand reflectors shall be provided. When specified, crane shall be winterized. Lifting and tiedown attachments shall be provided. Before assigning any welder to manual welding work, contractor shall furnish certification that welder has passed approved qualification tests. The crane-shovel, together with the various items of front end operating equipment, and intended for use in handling materials, lifting and transporting loads short distances, soil stripping, earthmoving, ditch digging and pile driving. In accordance with MIL-C-10466D Type A class 1, size 20. FSN 3810-554-4103. No security clearance required to obtain APPI. USAECOM.

APPI No. ME-11. Searchlight, DC, 28 V, 100 AM/ Xenon Type, published previously in the 1 Jun 1965 issue of Commerce Business Daily is hereby cancelled by USAECOM.

APPI No. ME-19. CANCELLATION OF APPI: APPI No. ME-19, Metascope Assy Image, Infra Transistorized, published previously in the 6 Jun 1965 issue of Commerce Business Daily is hereby cancelled by USAECOM.

APPI No. ME-26R2. Ponton Boat, Half Section aluminum hull, overall dimensions of hull 18 ft 5 in. long, 6 ft. 8 1/2 in. wide, 34 in height, 13,200 lb. capacity. In accordance with MIL-P-52200A at Dwg No. D7899-1 thru 26, FSN 5420-542-4729, No security clearance required to obtain APPI. USMEC.

APPI No. ME-42R2. Tank, Fabric, Collapsible Water, nylon, rubber coated, 3,000 gallon. Material shall not impart taste or odor to chlorinated water. Complete list of the ingredients, and concentration of each to be used in product formulation shall be submitted to contracting officer days prior to production, in order to determine the acceptability of the rubber formulation from toxicological viewpoint. Nylon cloth shall be

APPI No. MI-24. Guidance and Control Set for XMGM-51A (Shillelagh) consisting of: Tracker, Optical, SU-27 (ZO-1M); Converter, Signal Data; Sensor, Rate; Modulator; Transmitter, Optical; Power Supply, PP-4255 (XO-1)M; Panel, Test Checkout; Set of connecting cables, consisting of six (6) special cable assemblies, No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. Confidential clearance required to obtain this APPI. USAMICOM.

APPI No. MI-35, Improved HERCULES Modification Kit consists of a Target Ranging Radar Antenna mounted on GFE 4 wheel flat bed trailer, weighing 12,800 lbs; Radio Frequency Detector weighing 12 lbs; Auxiliary Acquisition Cabinet (Control-Interconnection Group) weighing 225 lbs; Target Ranging Radar Control Receiver-Transmitter Cabinet weighing 830 lbs, plus additional hardware kits. No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. Inquiries should be made direct with Western Electric Co., Burlington, N. C. Confidential Clearance required to obtain this APPI. USAMICOM.

APPI No. MI-37, Shelter Electronic Test Group #3, as defined by Missile Interim Specification M15 5707, Rev 3. This shelter is for use as a part of Multi-System Test Equipment (MTE) to provide protective and operating facility for missile electronic test equipment, repair equipment and technicians. Outside dimensions: L. 163 in., W. 83 1/2 in., H. 87 in., Gross weight: 1850 lbs (Max). Laminated foam aluminum construction. Due to changes and updated information, this APPI cancels and supersedes MI-COM APPI No. 1. Confidential Clearance required to obtain this APPI. USAMICOM.

APPI No. MI-38, Shuttlebag, Container Assembly, shipping and storage, guided missile are containers used in packing 152mm missiles and are designed to withstand all conditions encountered in handling, storing and transportation of missiles. No Federal Stock Number assigned. CONFIDENTIAL Clearance required to obtain APPI. USAMICOM.

APPI No. MI-57, Alignment Test Set, Transmitter, Shuttlebag. This is an optical device (telescope) which is temporarily mounted on the transmitter to verify the mechanical alignment of the transmitter with respect to the telescope in sighting the target. No Federal Stock Number Assigned. Procurement may be a small business set-aside. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-58, Chaparral Missile Launch and Control Pallet mounted on GFE tracked vehicle with Organizational and Field Maintenance Shop Sets. The pallet is constructed as a self contained unit with a central gunner's turret with 4 launch rails, 2 on each side. The Launcher and Control Pallet is capable of being removed from the vehicle and temporarily mounted on other vehicles or on the ground. No Federal Stock Number Assigned. CONFIDENTIAL Clearance required to obtain APPI. USAMICOM.

APPI No. MI-59, Container for Redeye Launcher. The existing container is constructed of two .080" thick 6061 T4 aluminum shells, top and bottom, which are closed with 10 cam latches. The shells have 15 internal supports which provide rigidity and hold the Redeye Launcher in place. The supports are constructed of 6061 T4 aluminum and non-rigid polyurethane foam in accordance with Spec MIL-P-26514 type II class 2. The container possesses a permanently attached gasket, must be watertight when closed, must meet environmental test MIL-E-5272, and withstand a temperature range of -65°F to +180°F. Overall dimensions of the container are 54.5" long x 15.5" wide x 12.5" high. While this design is acceptable it is not final. Design proposals to reduce weight and cubage of the container without sacrificing protection are solicited. No Federal Stock Number assigned. Procurement may be a small business set-aside. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-66, The Forward Area Contact Support Set (FACSS) (Shuttlebag Missile System) includes a Transmitter Beam Analyzer, Guidance Set Group Analyzer and an Accessory Case, each contained in a waterproof case. The FACSS is used to perform the functions of measuring transmitter beam intensities, ratio of beam intensities and fault isolating a removable major item of the Shuttlebag Guidance Set Group installed in the Sheridan or M60 A1E1 vehicle. No Federal Stock Number assigned. Requirements for fiscal year 67 are for sub-contracting opportunities only and request for additional information should be directed to Aeromtronics Inc., Newport Beach, Calif. Method of procurement for fiscal years 68 and 69 will be competitive negotiation. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-68, Overpack, Missile, Tow Missile System. Structure consisting of a wirebound wooden box, with 3 sets of internal intermediate wooden cleats for suspension media retention. Suspension Media consisting of 3 Polyethylene Foam saddles and 2 Polyethylene Foam end-pads, separated from both ends of the missile by a 3/8" thick plywood partition. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-69, Control Surface Actuators, Tow Missile System. Two position, linear-stroke, Hellum-Gas operated actuators drive the missile control surfaces. Extension of the control surfaces from the folded position activates the system, releasing compressed gas from the storage bottle into a manifold. Variation in the dwell times at the ends of the stroke achieves the effect of proportional control surface deflection without the high cost of proportional deflection actuators. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-71, Tripod, Launcher, Tow Missile System. A folding tripod with adjustable legs provides a level and rigid base for the launcher. Tripod shall be of a durable and light weight material. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-70, Adapter and Stowage Kit, M274 Vehicle. Adapter hardware for mounting the Tow System on the M274 (Mule) Vehicle has existed for some time and considerable testing has been accomplished. The adapter kit consists of the following items: Two saddles clamped across the bed support 5 spare rounds which are held in by quick-release metal bands. The Tripod carried crosswise of the vehicle forward of the spare rounds held by a quick-release metal band and a coupling flange. A pallet supporting a pedestal mounting the traverse unit, a coupling ring for the traverse unit, and a support for the electronic unit. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-72, Adapter and Stowage Kit M151 Vehicle, Tow Missile System. The M151 Adapter is a two jeep concept. The first or lead jeep will carry two crew members, a center mounted firing pedestal also stowage for the TOW Launcher traversing unit, electronic unit and two missiles. The two missiles are stowed in saddle brackets in the rear of the jeep. The Adapter Kit is easily mounted on the M151A1 or M151A1C with only minor modifications to the vehicles. The TOW can be either fired from the vehicle or dismounted by quick release fasteners to establish a ground mode configuration within the required reaction time. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-73, Adapter and Stowage Kit, M113 Vehicle, Tow Missile System. The M113 vehicle adapter is a stowage firing kit for the TOW Missile that can be installed in the field. It consists of a mechanical deployment mechanism for the TOW launcher and additional brackets and racks for storing the missiles and launcher equipment. The principal components of the deployment mechanism are a pedestal support rail assembly, pedestal support, and telescoping pedestal which facilitate deployment of the launcher to a firing position above the deck of the vehicle. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-75, Guidance Set for Launcher, Tow Weapon System. The guidance set provides facilities for battery installation, and contains the electronic circuits necessary to develop system operating and control voltages. An additional function is to electrically convert information developed by the sight/sensor and traversing unit into missile command link signals. The guidance set consists, primarily, of a chassis assembly, power supply, and six printed circuit cards which are installed in the chassis assembly. No Federal Stock Number assigned. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft, Culver City, California. Confidential Clearance required to receive APPI. USAMICOM.

APPI No. MI-76, Container, Tow Weapon System. The Tow Missile container is a fiberglass/epoxy container that provides environmental protection for the missile during storage and hauling. It incorporates seals that are not broken until the moment of firing, allowing the missile to be unloaded from the launcher without loss of its environmental protection. Mechanical alignment and electrical connection to the launcher are provided automatically as the container is loaded and locked into the launch tube. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft, Culver City, California. Confidential Clearance required to receive APPI. USAMICOM.

APPI No. MI-77, Traversing Unit for Launcher, Tow Weapon System. The traversing unit is an electro-mechanical assembly which is attached to the tripod during ground engagement. It provides mechanical support for the launch tube, sight/sensor, and missile as well as the necessary electrical connections between the launcher and missile. The traversing unit consists of a turnon and bridge clamp, viscous damper, rate tachometer generators, and a trigger for actuating the electrical firing sequence. No Federal Stock Number assigned. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft, Culver City, Calif. Confidential Clearance required to receive APPI. USAMICOM.

APPI No. MI-78, Sight/Sensor Unit of Launcher, Tow Weapon System. The sight/sensor compares the instantaneous line of sight from the launcher to the missile with the instantaneous line of sight to the target. This comparison establishes the amount of correction required by the missile at any moment during the flight. The sight/sensor consists of an optical sight, an infrared sensor and associated electronic circuits including a preamplifier, boresight circuits, and a reference resolver. No Federal Stock Number assigned. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft, Culver City, Calif. Confidential Clearance required to receive APPI. USAMICOM.

APPI No. FA-57, Ball Bearing Screw Assembly, P/N 10522056. This device actuates the canopy of the M8 Remover. This is a component part of the M8 Drawings and specifications for the item will be available at the time of solicitation. Projected quantity is 50 devices — required delivery being eight months after the date of award of the device. No security clearance is required to receive the APPI. There is no Government Furnished Property requirement or Technical Manual requirements connected with the procurement of this item. USA. MUCOM.

APPI No. FA-58, M8 Motor Canopy Removal, FD20734. This motor device actuates the canopy of the M8 Remover. This is a component part of the M8 Drawings and specifications for the item will be available at the time of solicitation. Projected quantity is 50 devices — required delivery being eight months after the date of award of the device. No security clearance is required to receive the APPI. There is no Government Furnished Property requirement or Technical Manual requirements connected with the procurement of this item. USA. MUCOM.

APPI No. FA-59, M27 Initiator. It is a device which ejects the aircraft's seat. This device is a mechanical operated firing mechanism, which is triggered by the cartridge. This item is considered a highly complex precision device. It is classified as a hazardous item. The device is subject to rigid safety control during the course of manufacture. Drawings and specification for the item will be available at the time of solicitation. Projected quantity is 1200 devices — required delivery being eight months after the date of award of the device. No security clearance is required to receive the APPI. There is no Government Furnished Property requirements or Technical Manual requirements connected with the procurement of this item. USAMUCOM.

APPI No. EA-35, Decontaminating Apparatus, Power Driven, Skid Mounted, Multipurpose, New Integral, 500 Gallon, M12 (FSN 4230-741-9985). The M12 Decontaminating Apparatus consists of two skid mounted subassemblies: A self-contained pump assembly and a tank assembly. The self-contained pump assembly is powered by an aircooled engine which drives a centrifugal pump. The pump assembly may be used individually or interconnected with the tank assembly. The tank assembly has a hopper blender assembly used for blending STB decontaminating agent and water. Also a fluid agitator system is provided for keeping the STB in suspension while in use. The suction hose and blender hose are stowed on the tank assembly. The M12 Decontaminating Apparatus is designed to decontaminate critical terrain, equipment, or buildings and provide secondary services such as cleaning equipment, fire fighting, defoliating, etc. proposed procurement will be under 100 percent small business set aside. No security clearance required to obtain APPI. USAMUCOM.

APPI No. AP-7R-1, Projectile Body & Band Assembly, M375, 81mm — consists of three (3) components, 10.028" L x approx 3.184" max diameter, Body, 9.125" L x 3.184" D, nose and tapered, 2.595" OD, base end 1.835" OD, nose end 2.235" ID, base end 1.62" ID with varying wall thickness, with .25" max bourrelet area, material, pearlitic malleable iron, Grade 50007, yield strength 50,000 PSI, 7 percent elongation, specification, MIL-A-46971, Band, Obturating, 3.5" OD x 2.895" ID x .1875" W, material, pipe, plastic, specification, PA-PD-2521, Adapter, Base, 1.26" L x 1.8" max D, nose end threaded 1-1/8" 18 NEF, material, carbon steel, Grades 1018, 1020 and 1022, ASTM-A107, specification, bar quality or A108 applies, alternate pearlitic malleable iron, ASTM, Grade 50007, yield strength 50,000 PSI, 10 percent elongation, specification, MIL-L-11444, Adaptor is brazed 360 degrees or welded steel is used and tested to withstand an internal 5000 PSI hydrostatic test and 150 PSI internal pressure test. Hardness testing will be required. Body casting requires 100 percent ultrasonic and magnetic particle inspection. Finishing, clear zinc phosphate base, exterior — lusterless enamel lacquer. Interior, acid resistant paint. Ballistic testing will be required on the initial production run and each subsequent production lot. Manufacturer firms bidding this item will require a competent staff of engineers, metallurgists, chemists and tool design engineers to design, fabricate, maintain precision tools required for mass production of this item. This item is considered very difficult produce to applicable specifications. No clear required to receive APPI. AP-USAMUCOM.

APPI No. AP-26R-1, Cartridge, Ignition, M16. Loaded is approximately .30" in diameter x 1.43" in length. Procured black powder loaded with primer in accordance with Purchase Description PA-PD-2554 Body Assembly, design similar to a shotgun shell, material, Paper Wad, hardpressed, convolute commercial, Base Cup, material, steel commercial, .015" thick, finish cadmium coated, Class 3, material, plastic, clear or green, smooth surface, material, polyethylene, linear, non-oriented (Herculon HI Fax, 1700 or 1800), approved source, Hercules Powder Company, Wilmington, Delaware, Crimp, .780" D x .015" thick, material, brass, commercial, Wad, approximately .76" in diameter, material, woodpaper, commercial, Price

APPI No. AT-76R6. Track Shoe Assembly, 19
This ORD 7952165 track shoe assembly was origi-
nally released in July 1966. Provision of this rev-
is adjustment of quantities. FSN 2530-795-2165.
clearance required to obtain APPI. USATAC.

APPI No. AP-48R-1. Case, Cartridge, 40mm M169-2.09" L x 1.624" ID with varying wall thickness from .032" to .724", with a web 1.136" thick with 6 each .108" ID tapered hole equally spaced around the web inside of case. The material is aluminum alloy 6066 chemical comp. par. 3.1. Spec MIL-A-25493. This item has meta stamping in base, uses Gottle capital letters in a minimum depth of .010" raised material which shall not exceed .002. The letter to identify item by no nomenclature, manufacturer's code letter, lot number and year of manufacture. Protective Finish No. 4, followed by Finish No. 7.2.2 of MIL-STD-171 Dechlorinate Seal, minimum 5 percent solution. Color must not be lighter than Green No. 34151 or darker than Green No. 34079 of Federal STD No. 595. Plug Base. 473" thick x 1.053" D with a primer pocket .127" D x .209" with flash hole .108" through plug. Material, aluminum alloy, 7075-T6, Spec QQ-A-277, protective finish same as case cartridge. Disc Closing, .101" thick x .66" D of material brass alloy No. 1. Spec ASTM-B36-61. Finished cartridge case must withstand a hardness test near the mouth and base of the case, method of test, 243 of Federal Standard No. 151, and corrosion resistance shall be tested in accordance with Federal Standard No. 151, method 811.1. Contractor must provide and maintain an effective Quality Assurance System. This item is considered very difficult to manufacture by mass production methods. No security clearance required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-48R-2. Projectile, HEAT, 106mm, M344A1 with M8 Fin. MPTS—This projectile Assembly, 16.43" L in D, consists of 10 components followed by a radius, a reverse angle taper, L x 4.128" OD, 3.555" ID, counterbored and internally threaded on both ends, 2 bonnetlets and an annular groove on the DD, material, steel, tubing, seamless, Specification QQ-T-830 or steel, forging, Special Bar Quality, Spec ASTM-A107; Ogive 8.116" L, hollow truncated cone with a 4.11" OD tapering to 1.3713" on the opposite end, .144" wall thickness, external threads on both ends, material, steel, forging, Special Bar Quality, Specification ASTM-A107 or steel, cold extrusion, Specification MIL-S-13110; Cone, 3.819" L, hollow truncated cone, closed on the small end, 3.564" OD tapering to approx. .616" on the opposite end, .10" wall thickness, material, copper, strip, cold-rolled, deep drawing annealed, Spec QQ-C-576; Chamber, 3.10" L x 3.938" OD, external thread on one end, internal thread on other to 1035 Spec QQ-T-830, other parts are pins /6 each x 1-7/8 thread, a counterbore and a 1.264" through hole with 4 equally spaced longitudinal slots on the circumference, material, Aluminum Alloy, Forging, Specification QQ-A-367 or Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; Plug, .39 L x 1.873" OD, 1-7/8 external thread, 2 blind holes 180 degrees apart on the base, one blind hole on the longitudinal axis at the opposite end, material Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; other parts consist of polyimide insulator and conduit, brass eyelet, stainless steel wire with polyamide insulation, wire terminal and a carbon steel ogive cap. Fin Assembly, 11.22" L x 3.938" in D, consists of 16 component parts, the major components are Fin /6 each, 8.93" L, varying in depth from 1.544" at the Base to .929" at outer extremity, .040" thick at top to .260" at the bottom, .25" hole through base with a full depth involute spur gear tooth space on outside radius at bottom of base, material, Aluminum, Forging, Spec QQ-A-367; Housing, 2.91" L x 3.938" OD, 1.687" ID, 6 pair of lugs on one end with .25" hole through each, other end counterbored with a .35" thread on the OD, material, Aluminum, Forging, Specification QQ-A-367 or Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; Piston, 2.93" L x 1.88" in D, 1.38" internal D on large and necked down in 2 steps on a .195 internal D on the small end, 1.625" thread on large OD, circumferential rack bar, cold finished, Specification ASTM-A108; Stop, .51" L x 1.824" DD and 1.625" thread on the ID, undercut and taper on OD, material, steel, carbon, bar, cold finished, 1137 or 1117, Spec ASTM-A108 or steel, tube, seamless CDST, MT1020, 1022 cavity in base end, 5/8" D x 53" D, opposite end threaded cavity 1.80" D x 1.94 thread, material, aluminum alloy, 2024-T4 or 2024-T3510, Spec QQ-A-267, and an "O" ring. This item must withstand vigorous ballistic tests for such characteristics as security of metal parts, fin opening and penetration. Manufacturer staff of engineers, metallurgists and tool designers. The item is considered extremely difficult to produce in accordance with applicable specifications. No security clearance required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-48R-3. Projectile, HEAT, 106mm, M344A1 with M8 Fin. MPTS—This projectile Assembly, 16.43" L in D, consists of 10 components followed by a radius, a reverse angle taper, L x 4.128" OD, 3.555" ID, counterbored and internally threaded on both ends, 2 bonnetlets and an annular groove on the DD, material, steel, tubing, seamless, Specification QQ-T-830 or steel, forging, Special Bar Quality, Spec ASTM-A107; Ogive 8.116" L, hollow truncated cone with a 4.11" OD tapering to 1.3713" on the opposite end, .144" wall thickness, external threads on both ends, material, steel, forging, Special Bar Quality, Specification ASTM-A107 or steel, cold extrusion, Specification MIL-S-13110; Cone, 3.819" L, hollow truncated cone, closed on the small end, 3.564" OD tapering to approx. .616" on the opposite end, .10" wall thickness, material, copper, strip, cold-rolled, deep drawing annealed, Spec QQ-C-576; Chamber, 3.10" L x 3.938" OD, external thread on one end, internal thread on other to 1035 Spec QQ-T-830, other parts are pins /6 each x 1-7/8 thread, a counterbore and a 1.264" through hole with 4 equally spaced longitudinal slots on the circumference, material, Aluminum Alloy, Forging, Specification QQ-A-367 or Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; Plug, .39 L x 1.873" OD, 1-7/8 external thread, 2 blind holes 180 degrees apart on the base, one blind hole on the longitudinal axis at the opposite end, material Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; other parts consist of polyimide insulator and conduit, brass eyelet, stainless steel wire with polyamide insulation, wire terminal and a carbon steel ogive cap. Fin Assembly, 11.22" L x 3.938" in D, consists of 16 component parts, the major components are Fin /6 each, 8.93" L, varying in depth from 1.544" at the Base to .929" at outer extremity, .040" thick at top to .260" at the bottom, .25" hole through base with a full depth involute spur gear tooth space on outside radius at bottom of base, material, Aluminum, Forging, Spec QQ-A-367; Housing, 2.91" L x 3.938" OD, 1.687" ID, 6 pair of lugs on one end with .25" hole through each, other end counterbored with a .35" thread on the OD, material, Aluminum, Forging, Specification QQ-A-367 or Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; Piston, 2.93" L x 1.88" in D, 1.38" internal D on large and necked down in 2 steps on a .195 internal D on the small end, 1.625" thread on large OD, circumferential rack bar, cold finished, Specification ASTM-A108; Stop, .51" L x 1.824" DD and 1.625" thread on the ID, undercut and taper on OD, material, steel, carbon, bar, cold finished, 1137 or 1117, Spec ASTM-A108 or steel, tube, seamless CDST, MT1020, 1022 cavity in base end, 5/8" D x 53" D, opposite end threaded cavity 1.80" D x 1.94 thread, material, aluminum alloy, 2024-T4 or 2024-T3510, Spec QQ-A-267, and an "O" ring. This item must withstand vigorous ballistic tests for such characteristics as security of metal parts, fin opening and penetration. Manufacturer staff of engineers, metallurgists and tool designers. The item is considered extremely difficult to produce in accordance with applicable specifications. No security clearance required to obtain this APPI. AP-USAMUCOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated May 1, 1967, page 2, No. PSA 3661-0047 that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AP-48R-1. Case, Cartridge, 40mm M169-2.09" L x 1.624" ID with varying wall thickness from .032" to .724", with a web 1.136" thick with 6 each .108" ID tapered hole equally spaced around the web inside of case. The material is aluminum alloy 6066 chemical comp. par. 3.1. Spec MIL-A-25493. This item has meta stamping in base, uses Gottle capital letters in a minimum depth of .010" raised material which shall not exceed .002. The letter to identify item by no nomenclature, manufacturer's code letter, lot number and year of manufacture. Protective Finish No. 4, followed by Finish No. 7.2.2 of MIL-STD-171 Dechlorinate Seal, minimum 5 percent solution. Color must not be lighter than Green No. 34151 or darker than Green No. 34079 of Federal STD No. 595. Plug Base. 473" thick x 1.053" D with a primer pocket .127" D x .209" with flash hole .108" through plug. Material, aluminum alloy, 7075-T6, Spec QQ-A-277, protective finish same as case cartridge. Disc Closing, .101" thick x .66" D of material brass alloy No. 1. Spec ASTM-B36-61. Finished cartridge case must withstand a hardness test near the mouth and base of the case, method of test, 243 of Federal Standard No. 151, and corrosion resistance shall be tested in accordance with Federal Standard No. 151, method 811.1. Contractor must provide and maintain an effective Quality Assurance System. This item is considered very difficult to manufacture by mass production methods. No security clearance required to obtain this APPI. AP-USAMUCOM.

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APPI No. AP-48R-3. Projectile, HEAT, 106mm, M344A1 with M8 Fin. MPTS—This projectile Assembly, 16.43" L in D, consists of 10 components followed by a radius, a reverse angle taper, L x 4.128" OD, 3.555" ID, counterbored and internally threaded on both ends, 2 bonnetlets and an annular groove on the DD, material, steel, tubing, seamless, Specification QQ-T-830 or steel, forging, Special Bar Quality, Spec ASTM-A107; Ogive 8.116" L, hollow truncated cone with a 4.11" OD tapering to 1.3713" on the opposite end, .144" wall thickness, external threads on both ends, material, steel, forging, Special Bar Quality, Specification ASTM-A107 or steel, cold extrusion, Specification MIL-S-13110; Cone, 3.819" L, hollow truncated cone, closed on the small end, 3.564" OD tapering to approx. .616" on the opposite end, .10" wall thickness, material, copper, strip, cold-rolled, deep drawing annealed, Spec QQ-C-576; Chamber, 3.10" L x 3.938" OD, external thread on one end, internal thread on other to 1035 Spec QQ-T-830, other parts are pins /6 each x 1-7/8 thread, a counterbore and a 1.264" through hole with 4 equally spaced longitudinal slots on the circumference, material, Aluminum Alloy, Forging, Specification QQ-A-367 or Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; Plug, .39 L x 1.873" OD, 1-7/8 external thread, 2 blind holes 180 degrees apart on the base, one blind hole on the longitudinal axis at the opposite end, material Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; other parts consist of polyimide insulator and conduit, brass eyelet, stainless steel wire with polyamide insulation, wire terminal and a carbon steel ogive cap. Fin Assembly, 11.22" L x 3.938" in D, consists of 16 component parts, the major components are Fin /6 each, 8.93" L, varying in depth from 1.544" at the Base to .929" at outer extremity, .040" thick at top to .260" at the bottom, .25" hole through base with a full depth involute spur gear tooth space on outside radius at bottom of base, material, Aluminum, Forging, Spec QQ-A-367; Housing, 2.91" L x 3.938" OD, 1.687" ID, 6 pair of lugs on one end with .25" hole through each, other end counterbored with a .35" thread on the OD, material, Aluminum, Forging, Specification QQ-A-367 or Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; Piston, 2.93" L x 1.88" in D, 1.38" internal D on large and necked down in 2 steps on a .195 internal D on the small end, 1.625" thread on large OD, circumferential rack bar, cold finished, Specification ASTM-A108; Stop, .51" L x 1.824" DD and 1.625" thread on the ID, undercut and taper on OD, material, steel, carbon, bar, cold finished, 1137 or 1117, Spec ASTM-A108 or steel, tube, seamless CDST, MT1020, 1022 cavity in base end, 5/8" D x 53" D, opposite end threaded cavity 1.80" D x 1.94 thread, material, aluminum alloy, 2024-T4 or 2024-T3510, Spec QQ-A-267, and an "O" ring. This item must withstand vigorous ballistic tests for such characteristics as security of metal parts, fin opening and penetration. Manufacturer staff of engineers, metallurgists and tool designers. The item is considered extremely difficult to produce in accordance with applicable specifications. No security clearance required to obtain this APPI. AP-USAMUCOM.

considered very difficult to produce to applicable specifications. No security clearance required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-48R-1. Case, Cartridge, 40mm M169-2.09" L x 1.624" ID with varying wall thickness from .032" to .724", with a web 1.136" thick with 6 each .108" ID tapered hole equally spaced around the web inside of case. The material is aluminum alloy 6066 chemical comp. par. 3.1. Spec MIL-A-25493. This item has meta stamping in base, uses Gottle capital letters in a minimum depth of .010" raised material which shall not exceed .002. The letter to identify item by no nomenclature, manufacturer's code letter, lot number and year of manufacture. Protective Finish No. 4, followed by Finish No. 7.2.2 of MIL-STD-171 Dechlorinate Seal, minimum 5 percent solution. Color must not be lighter than Green No. 34151 or darker than Green No. 34079 of Federal STD No. 595. Plug Base. 473" thick x 1.053" D with a primer pocket .127" D x .209" with flash hole .108" through plug. Material, aluminum alloy, 7075-T6, Spec QQ-A-277, protective finish same as case cartridge. Disc Closing, .101" thick x .66" D of material brass alloy No. 1. Spec ASTM-B36-61. Finished cartridge case must withstand a hardness test near the mouth and base of the case, method of test, 243 of Federal Standard No. 151, and corrosion resistance shall be tested in accordance with Federal Standard No. 151, method 811.1. Contractor must provide and maintain an effective Quality Assurance System. This item is considered very difficult to manufacture by mass production methods. No security clearance required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-61R-2. Projectile, 40mm, Practice, M407A1 consists of three /3 components. Ogive Ball and Skirt. Ogive, formed paraboloid shape, 1.51" ID at base x 1.25" H x .028" min thickness, material aluminum alloy, sheet and plate 1100-O, Spec ASTM-B209, .032" plus or minus .002" thick. Ball, spherical shape, 1.5" D, .568" ID x 1.362" D cavity with 5/8 - 32 UN-2B threads. Material metal filled phenolic compound, Skirt, 1.62" OD x 1.37" ID x 1.5" L, machined with various diameters and grooves. Material, aluminum tubing, alloy 6061-T4, or 2024-T0, physical properties to be in accordance with Table II, Spec ASTM-B210. Ball and skirt together with adhesive, and skirt is swaged overball and linked at 200 degrees F plus. After assembly of ball to skirt, sphere shall withstand a torque of 100"/pounds applied through a bar inserted in the cavity of the ball, and threads to withstand 40"/pounds minimum torque. Manufacturing firms bidding on this item will require a competent technical staff consisting of engineers, metallurgists and tool design engineers to design and maintain precision tools for the production of precision parts. This projectile is considered somewhat difficult to produce to applicable drawings and specifications. Confidential clearance is required to receive this APPI. AP-USAMUCOM.

APPI No. AP-70R-1. Projectile, 40mm, IIB, M384, MPTS—Consists of body and blank band. Body is approx 1.855" L x 1.558" max D. Body is bent with knurled groove, .366" W around body approx .674" from mouth of body. Body tail base and side walls are approx .107" thick. Body has inside threads 1-15/32-28NS-2B at top. Internal base surface deeply embossed with a radii earl wheel configuration. Body is to be impact extrusion material 1030 steel ASTM 107-61T special quality. Alternate method of manufacture to be drawn from plate material, 1030 steel plate, spec QQ-S-700B. Blank band is ID 1.56" and .072" wall thickness. Band Blank is to be swaged to band seat of body and two grooves machined in body rearward of the band. Body assembly to be phosphate coated and painted olive drab. The item is considered to be difficult to manufacture to drawing and specification requirements. Confidential clearance is required to receive this APPI. AP-USAMUCOM.

APPI No. AP-102R-1. Projectile, 105mm, IIB, M1, MPTS—Consisting of three components. Body Shell 15.7" L. O. D. at base 3.52" below rotating band groove 4.128" OD, 4.10" OD of body, 4.128" at bonnetlet and tapered to 2.38" OD at the nose, 3.05" up from base of projectile a groove is machine and knurled for rotating band. Nose of projectile has interior threads 1.39" min full thread. Exterior of nose end has five staking notches equally spaced, .06" depth x .08" D. Material: forging steel, Specification MIL-F-13854, alternative when shell is manufactured by cold extrusion process use specification MIL-S-13110, steel, bars, for cold shaping. When produced by cold extrusion, use specification, RP-PD-96. When produced by hot cup, cold draw not be used. Yield strength, 1%, 65,000 PSI, elongation 15%. Specification MIL-F-13854 not applicable when produced by cold shaping and only to the forged cup when produced by hot cup cold draw process. Rotating band 4.16" ID, .197" thick x .865" W, assembled to projectile cold. Material: Cladding metal specification MIL-B-20292 or Sintered Iron, Class 4, Specification MIL-R-11073, Cover base 3.01"

D x .03117" thick material: Steel, strip, FS1009 temper No. 4, finish No. 1. A satisfactory passing of a ballistic test is a requirement for the acceptance of each lot of projectiles from the metal parts manufacturer. No security clearance required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-120. Projectile, 40mm, M406—Consists of the following components parts: Ogive, parabola shape, formed from aluminum alloy sheet and plate, 1100-0, Spec. ASTM-B209, .032" plus or minus .002" thick. Protective finish No. 7-1 or 7.2 of MIL-STD-717. Color, yellow, No. 33538 per FED-STD-.002" thick. Protective finish No. 7-1 or 7.2 of MIL-diameter with parallel flats on side 1.259" apart, form from notched wires, flats bored and counter-bored of material: wire, steel, FS 1010, Composition A, temper annealed, finish No. 1 or No. 2 bright, .061 x .150" rectangular, Spec. QQ-W-461, Plug, .793" D with spherical top .062 to .079" thick. Material: steel strip cold rolled, temper No. 5, Spec. ASTM-A109, insert, .769" OD with .86" OD flange approx. centered on .238" width and .59" ID with thread .625-32NS-2B. Material steel bar, as cold finished 1117 or 1010 to 1020 incl. Spec. ASTM-A108. Ball and skirt assembly consist of ball assembly described above with Skirt, 1.50" L x 1.623" OD with machined flanges at center and one end 1.375" ID one end spherical radius 1D opposite end. Material, aluminum (inhibiting alloy 6061-T4 or 2024 to physical properties to be accordance with Table II, Spec. ASTM-B210, protective finish no 7.3 of MIL-STD-171, and color in accordance with FED-STD-595, Skirt to be assembled to hull assembly by swaging the skirt over ball with adhesive. Manufacturing firms bidding this item will require a competent technical staff or Engineers Metallurgists and Tool Design Engineers to design and maintain precision tool required for mass production of component parts. This projectile is considered very difficult to produce to applicable drawings and specifications. No security clearance is required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-121. Fuze, PD, M531, is procured with Detonator and lead charge loaded into the Fuze. Fuze is approx 1.325" D x 1.818" L, consisting of approx 40 component parts and numerous applicable specifications. The assembly consists of plates, shafts, pins, pinions, gear, springs, retainers, rotors, spacers, adapters, and seals, fabricated by stamping, punching, drilling, reaming, coining, forming, trimming, blanking, tapping, knurling, staking, marking, heat-treating, tin plating, zinc plating, oxide black finishing and molybdenum. The materials are aluminum alloy sheet, strip, and rod, brass sheet, strip, and rod, steel music wire, and aluminum tape. The assembly is required to meet the following tests: Jolt and Jumble, Transportation and Vibration, Waterproofing, Function and Firing, arming and non-arming tests. Firms manufacturing this item will require a highly competent technical staff of engineers, metallurgists, tool engineers to design and maintain precision tools to produce and test precision parts. This item is considered very difficult to produce in quantities normally required by Ordnance. In addition, a considerable amount of knowhow of various metal-working processes is required to produce in accordance with Ordnance Specifications. No security clearance is required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-122. Fuze, PD, M533—This fuze is 1.602" in D and 1.556" L. There are approx 40 parts to a fuze consisting of plates, shafts, pins, pinions, springs, gears, rotor, spacers, adapters, and seals. These parts are made by stamping, punching, drilling, reaming, coining, tapping, and knurling. They are made of steel, brass, and aluminum. The fuze must be completely assembled to rigid ordnance specifications and assembly is subject to following tests: jolt and jumble, transportation and vibration, waterproofing, arming, and non-arming. The fuze is procured with detonator and lead charge installed. This item is considered very difficult to produce to ordnance requirements. Firms manufacturing this fuze will require a highly competent technical staff of engineers to design and maintain precision tools to produce in quantities normally procured. No security clearance is required to obtain this APPI. AP-USAMUCOM.

APPI No. WE-268. Stock Assembly, P/N 7190952. Component part of the Rocket Launcher 3.5 in. M20A1B1. This part is made of aluminum alloy 2024, Temper O, Spec. QQ-A-250/4. It must be Temper T4 after forming and a finish 7.3 of MIL-STD-171. It is not considered difficult to manufacture. FSN 1015-719-0952. No Security Clearance is required. USAWECOM.

APPI No. WE-269. Lock, Gas Cylinder, P/N 7265871. This is a repair part for the Cal. .30 M1 Rifle. It is made of steel with heat treatment and final protective finish requirements. FSN 1005-726-5871. No Security Clearance is required. USAWECOM.

APPI No. WE-270. Screw, Gas Cylinder, P/N 6535449. This is a small arms part for the Cal. .30 M1 Rifle. It is made from corrosion resisting steel, Fed. Spec QQ-S-763, Class 6 as rolled except as noted on drawing. Heat treatment required and final protective finish to Spec MIL-F-13924 Class 3. FSN 1005-653-5449. No Security Clearance is required. USAWECOM.

APPI No. WE-271. Mechanism, Assembly, Firing, P/N 7140325. This is a component of the 3.5 Rocket Launcher. It is a plastic-molded item with a firing mechanism assembly and grip assembly. It is considered moderately difficult to manufacture. FSN 1055-714-0325. No Security Clearance is required. USAWECOM.

APPI No. WE-272. Amplifier, P/N 10515532. Part of Radio Set AN/GRC19. This electronic control amplifier is in accordance with Signal Corps drawing SMD-143396 less 4 tubes, 4 shields and 1 chopper. It is considered moderately difficult to manufacture. FSN 5990-5684-786. No Security Clearance is required. USAWECOM.

APPI No. MI-61R2. Contract Definition Phase for the Simulator Evaluator AN/MPQ-42. This is that phase during which preliminary design and engineering will be verified and/or accomplished, and firm contract and management planning will be performed on the Simulator Evaluator AN/MPQ-42. The AN/MPQ-42 is a complete Air Defense Complex exerciser and evaluator that will be moved from unit to unit and defense where it will be connected to tactical equipment for conducting evaluation and training, to maintain the highest state of combat readiness. No Federal Stock Number assigned. No clearance required to obtain APPI. USAMICOM.

APPI No. MI-73R1. Adapter and Stowage Kit, M113 Vehicle, TOW Missile System. The M113 vehicle adapter is a stowage firing kit for the TOW Missile that can be installed in the field. It consists of a mechanical deployment mechanism for the TOW launcher and additional brackets and racks for storing the missiles and launcher equipment. The principal components of the deployment mechanism are: a pedestal support rail assembly, pedestal support, and telescoping pedestal which facilitate deployment of the launcher to a firing position above the deck of the vehicle. No Federal Stock Number Assigned. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. MI-59. Cancellation of APPI. Container for Redeye Launcher, published in the 2 August 1966 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. ME-10. Cancellation of APPI. Published previously as APPI No. ME-10, GENERATOR SET, GED, 7.5 KW, 28 V, dc, wheel mounted in the 1 June 1965 issue of the Commerce Business Daily is hereby cancelled. APPI No. ME-10 is replaced by ME-115. USAMEC.

APPI No. ME-35R1. Bridge, Armored Vehicle Launched, scissoring type, class 60, aluminum, 60 foot span, Bridge shall consist of a hydraulic system, scissoring cables, and launching sockets. All elements of hydraulic system shall withstand working pressure of 3,500 psi and a proof pressure of 7,000 psi without deformation, leakage or damage. Hydraulic hose shall be synthetic rubber composition reinforced with multiple wire braid or wrap and designed for storage in ambient temperatures of minus 65 degrees F to plus 155 degrees F and for use in ambient temperatures of minus 25 degrees F to plus 200 degrees F. Outside cover of hose shall be neoprene synthetic rubber composition. Hydraulic hose assembly shall withstand pressure surges of 5,000 psi at a rate of 35 surges per minute for not less than 35,000 impulse cycles. Scissoring cables shall be painted with continuous longitudinal, color strip at time rope is measured to length and marked for fittings. Socketing of wire rope is required. Steel used in bridge shall be free of laminations, kinks and sharp bends. Corners shall be square and true, and sharp edges shall be removed. During aluminum fabrication, all major bends shall be made with metal dies or fixtures to insure uniformity. Bolt holes shall be punched or drilled and all burrs shall be removed. Components shall be bolted in position before riveting. Jigs or frames shall be used to maintain alignment and tolerance. Welder's qualification certificate required. In accordance with MIL-B-52088C and Dwg. No. DL13211E7830. FSN 5420-522-9599. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-36R1. Launcher, M60A1 Tank Chassis, Transporting, for bridge, armored vehicle launched, scissoring type, class 60. Launcher shall be fabricated of high strength steel and certificate of test conducted in accordance with Standard Federal Test Method STD No. 151 shall be furnished to the contracting officer. High pressure hydraulic system shall withstand working pressure of 3,800 psi and proof pressure of 7,000 psi without external leakage or damage. Cylinders shall operate at 3,800 psi sustained working pressure without malfunction or leakage and withstand 7,000 psi proof pressure without external leakage or damage. Hydraulic hose shall consist of seamless compound inner tube, re-shall consist of seamless wire braid(s) or spiral piles reinforcement consisting of wire braid(s) or spiral piles of high tensile steel wire or combination of both and outer cover shall be oil, weather and abrasion resistant synthetic rubber. Hose shall be storable at ambient temperatures from minus 65 degrees F to plus 155 degrees F and usable from minus 25 degrees F to plus 200 degrees F. All sequencing valves, pressure relief valves, check valves, flow regulators and the filter shall operate at 3,800 psi working

pressure and hydraulic fluid temperature of 190 degrees F and shall withstand a 7,000 psi proof pressure without malfunctioning or failure. Launcher shall launch, disconnect and recover 63 foot AVL bridge without evidence of defects. Launcher is intended to be used in an assault operation for launching an AVL bridge across a gap. In accordance with MIL-L-52325 and Dwg No. DL13211E3100, FSN 5420-889-2020. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-37R2. Crane, Wheel Mounted, 5 Ton, diesel engine driven, hydraulic, pneumatic tired, air transportable. The crane shall consist essentially of a 4 wheel drive; 4 wheel steer; pneumatic tired; diesel engine driven carrier with front end mounted, hydraulically operated dozer blade and rear end pintle hook. Carrier shall be a heavy framed, two axle supported, rubber tired vehicle having the general characteristics of an off highway type tractor for mounting a revolving crane superstructure and appropriate front end dozer. Carrier shall be equipped with a center mounted, full revolving boom with a telescoping boom, including a manual extension, hydraulically operated cable drum, hydraulic system, and operator's station with complete operating controls. With 24 foot rated boom length and 10 foot rated boom radius. Crane shall be adaptable to and operate as a 3/8 yard capacity hydraulically operated clamshell. Crane equipped with basic boom and dozer blade shall negotiate 15 percent side slopes, travel on paved level roads at speeds up to 27 mph. Shall perform in any ambient temperature from plus 120 degrees F to minus 25 Degrees F. Shall be processed to have the inherent capability of fording fresh or salt water to a depth of 1 foot above the top of the transmission without damage to crane or carrier. Lifting and tie-down attachments shall be provided. Equipped with a 4 wheel, power service brake system capable of safely stopping, holding, and controlling movements, including submersion in water, and with an emergency parking brake. A 24 volt, waterproof, electrical system for service and blackout night travel, lighting of the work areas at night, slave starting the engines of other vehicles, maintaining charge in the batteries, and starting the engine. Hydraulic powered outriggers shall be provided. The power train shall consist of a diesel engine located at the rear of the carrier delivering power to a torque converter, clutch, transmission units, and drive axles. The diesel engine shall be an industrial type conforming to MIL-E-11276. Engine shall be provided with a solenoid actuated electric starting motor. The front wheels be steered through worm and sector, ball mill, or cam and lever; shall be hydraulically assisted; and the rear wheel steering shall be fully hydraulic. The gross vehicle weight in operable condition and fully serviced shall not exceed 29,000 pounds. The safety characteristics shall eliminate hazards to personnel and to property. These cranes are intended for the following uses: Portable bridge emplacement and removal. Construction work as a crane or clamshell. Light dozer work. Cargo handling. Missile handling (highly maneuverable and precise control). Prime mover-trailed vehicles. In accordance with MIL-C-52220A, with Amendment 2, Size 1, FSN 3810-828-4457. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-38R1. Air Conditioner, 60,000 BTU, floor mounted, air cooled, 208/416 volts, 60 cps, 3 phase. Air conditioner shall be self contained, operate from both 208 volt, 50/60 cps, 3 phase, 4 wire source and 416 volt, 50/60 cps, 3 phase, 4 wire source. Cabinet shall be fabricated of aluminum with enamel finish. Air conditioner shall be designed for dichlorodifluoromethane with semihermetic type compressor and air cooled condenser. Unless otherwise specified, air conditioner shall be furnished with wiring connected to operate on 208 volt, 50/60 cps 3 phase, 4 wire service. Weight of air conditioner charged with refrigerant and oil shall be not more than 1,150 lbs. Air conditioner shall start and operate on cooling cycle at sea level with plus 125 degrees F ambient temperature and air at plus 12 degrees F temperature entering the evaporator; on cooling cycle at sea level with minus 25 degrees F ambient temperature and 100 degrees F to 125 degrees F entering the evaporator; on ventilation 1 ambient temperature as low as minus 65 degrees F. Refrigeration system shall be of vapor cycle type employing refrigerant conforming to BB-C-310, typ 12, and shall be furnished with a full charge in system. Fresh air damper opening shall be manually regulated. Evaporator and condenser fan motor shall be equipped with thermal overload protector and electrical controls shall consist of remote control panel, condenser service switch and crankcase heater controls. Air conditioner shall be storable in an ambient temperature of plus 155 degrees F for 4 hours daily for a period of 2 days and at minus 65 degrees F without solar radiation for 3 consecutive days. Air conditioner is intended for use providing cooled air to maintain adequate work temperatures in vans or shelters. In accordance with MIL-A-52250A and Dwg. No. DL13211E3810, FSN 4120-739-4321. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-39R2. Air Conditioner, 38,000 BTU/HR. Base mounted, self contained, multipackaged, lightweight, air cooled, air transportable. Shall operate automatically on the cooling cycle and either manually or automatically on the heating cycle. Shall be connected for operation on 208 volt or 416 volt, 3 phase, 400 cycle, 4 wire power, and shall be furnished with a compressor motor of the same characteristics. The weight of the air conditioner including the remote control panel and charged with refrigerant and oil shall not be more than 365 pounds. The refrigeration system shall be of the vapor cycle employing dichlorodifluoromethane conforming to specification HB-C-310, type 12 and shall be furnished with a full charge in the system. Cabinet shall be made of aluminum, enamel finish. Equipped with semihermetic type compressor and air cooled condenser. Electric motor powered using 3 motors; one used for compressor, 8.4 HP, ac, 416 volts 400 cps, 3 phase; one used for condenser fan, 3.02 HP, ac, 208/416 volts, 400 cps, 3 phase; one used for evaporator fan, 0.89 HP, ac, 208/416 volts, 400 cps, 3 phase. Nominal cooling capacity 38,000 BTU per hour with an air flow of 1300 CFM rated capacity. Nominal heating capacity 35,000 BTU per hour with airflow of 1300 CFM. The air conditioner is intended for use in providing cooled air heated air to maintain adequate working temperatures in vans, trucks, trailers or shelters. Air conditioners may be installed indoors or may be exposed to the weather. In accordance with MIL-A-52195A with Amendment 2 and Dwg. No. DL1321IE0000, FSN 4120-791-9459. No security clearance required to obtain APPI, USAMEC.

APPI No. ME-4I. Cancellation of APPI. APPI No. ME-4I, Filter Kit, Infrared, published previously in the 5 October 1965 issue of Commerce Business Daily, is hereby cancelled by USAMEC.

APPI No. ME-415. Generator Set, Gasoline Engine-Duven, 7.5 KW, 28 volt, direct current, 2 wire, winterized, wheel mounted. Set shall consist of an air or water cooled engine connected by a speed increaser to an aircraft type, dc generator, voltage regulator, cutout relay, battery, wiring, controls, control cabinet, wheel mounted frame, winterization equipment and other components and devices as required. Maximum dry weight shall be 810 lbs with maximum dimensions of 40 inches long (exclusive of towbar or cable hooks), 40 inches wide and 40 inches high. Operating (rated) speed shall be 6,000 rpm. Canvas cover shall be provided for storage and winterization enclosing top and four sides of set with flap covered opening for cooling air. Set, without external heat, shall start and operate at ambient temperatures from plus 125 degrees F to minus 25 degrees F at all relative humidities; with 3 inches of rain per hour impinging on set at angles from vertical to 45 degrees; with base in planes from level to 15 degrees and at 8,000 feet above sea level at ambient temperature of 90 degrees F. Set, with external heat, shall start and operate at ambient temperatures from minus 25 degrees F to minus 65 degrees F. Electrical circuitry, including all components and connections shall be fungus and moisture resistant except those whose functions would be adversely affected. Tire size 4.80/4.00 x 12, 4 ply, tie hook shall be bolted to rear of frame. Lifting attachment shall be provided on top of set. Industrial type gasoline engine and accessories conforming to MIL-E-11275, group II shall be provided with fuel tank, fuel filter, governing system, cranking system, manual engine control and exhaust system with muffler. Generator conforming to MIL-G-6162 shall be provided with voltage regulator, blower system, control cabinet, power cable and ground engine power to generator and blower system. No set shall be shipped without repair parts, maintenance tools, operating tools, literature and accessories unless authorized by contracting officer. Set is intended to provide electric power support for aircraft starting and checkout. In accordance with MIL-G-52450A, FSN 6115-914-4642. No security clearance required to obtain APPI, USAMEC.

APPI No. ME-45R3. Air Conditioner, 18,000 BTU/HR. Base mounted, self contained, compact lightweight, air cooled. The refrigeration system shall be of the vapor cycle type employing monochlorodifluoromethane. The compressor motor assembly shall be the hermetic type in which the compressor and motor are enclosed in the same housing. There shall be no external shaft or shaft seal and the motor shall operate in a refrigerant atmosphere. The motors shall operate on 208 volt, 3 phase, 50/60 Cycle a 2.5 hp, ac, 208 volt, 50/60 cycle, 3 phase; for the condenser and evaporator fan a 2 hp, ac, 208 volt, 50/60 cycle, 3 phase. Nominal cooling capacity heating capacity 12,000 CFM rated capacity; nominal capacity 12,000 BTU/HR at 600 CFM rated capacity. Cabinet shall be made of aluminum with enamel finish. The maximum weight of the air conditioner including the control box and a full charge of refrigerant and oil shall be 230 lbs. The air or heated air to maintain adequate working temperatures in vans. Air conditioner may be installed

indoors or may be exposed to the weather. In accordance with MIL-A-52344A, class 1 and Dwg. No. DL1321IE8400, FSN 4120-959-4453. No security clearance required to obtain APPI, USAMEC.

APPI No. EL-183. Central Office, Telephone, Manual AN/TTC-7A. A complete telephone switching center to interconnect common battery local battery and trunk lines. May be expanded on a 4-panel multiple basis to interconnect 1000 lines and 160 trunks. No security clearance required to receive APPI, USAMEC.

APPI No. EL-184. Cable Assembly, Special Purpose, Electrical CX-11230(1)/G. A cable assembly capable of being air-layed and designed for use in comm systems utilizing 24 or 48 freq div channels, time div systems and transmission of wide band data. No security clearance required to receive APPI, USAMEC.

APPI No. EL-185. Telephone Set TA-312(1)/PT. A lightweight, portable field telephone which is designed for general purpose use. No security clearance required to receive APPI, USAMEC.

APPI No. EL-186. Radar Set AN/PPS-5(1). A lightweight, miniaturized, combat surveillance radar utilizing a stent type power supply. This equipment is capable of detecting and locating, under conditions of poor visibility, moving targets such as personnel and vehicles. Also capable of detecting and locating large fixed targets under line-of-sight conditions. To be used in forward combat areas to provide intelligence of enemy movements. No security clearance required to receive APPI, USAMEC.

APPI No. EL-187. Tactical Imagery Interpretation Facility AN/TQ-43 and AN/TQ-43(1). The unit is a mobile unit containing photographic interpretation equipment for the purpose of interpreting photographic material surveyed from the air by photographic infrared and radar sensors. No security clearance required to receive APPI, USAMEC.

APPI No. EL-188. Radio Set Control Group AN/GRA-39A. Allows an operator to transmit or receive voice communication through a radio set from a distance of 2 miles away. No security clearance required to receive APPI, USAMEC.

APPI No. EL-189. Radio Teletypewriter Set AN/GRC-142(1). Provides one-way reversible (simplex) SSB voice, teletype and CW communications over 50 miles ground wave range. Provides for transmission and reception of frequency shift radio teletype using narrow shift (85 cycle), wide shift (850 cycle) or simultaneous SSB voice pulse narrow shift (85 cycle). No security clearance required to receive APPI, USAMEC.

APPI No. EL-190. Intercommunication Set AN/VIC-1(V). A variable vehicular type intercommunication set which will provide communication between operating personnel in various type of vehicles. No security clearance required to receive APPI, USAMEC.

APPI No. EL-191. Radio Set AN/VRC-12(1). Provides radio communication in frequency range of 30-76 mc; can monitor two channels simultaneously. No security clearance required to receive APPI, USAMEC.

APPI No. EL-192. Terminal, Telegraph-Telephone AN/TCC-29 and AN/TCC-29(1). Provides simultaneous of speech signals with voice-frequency telegraph (speech-plus-duplex operation) and voice-frequency ringing signals. No security clearance required to receive APPI, USAMEC.

APPI No. AV-178R1. Indicator, Pressure, Dial, 1 oil pressure scale, 0 to 100 PSI scale range, 5 PSI graduated increments, fluorescent letters, numerals illuminated, incandescent, clock hand pointer, fluorescent illuminated, AC, 26V, 400 cycles single phase, 1 electrical connection, 3 pin contacts, and 1006GD-108L-3P, O/A dim., 2-5/8 in. lg., 2 in. dia., clamp mtg., a QPL item. Interested concerns should contact order to have their product tested and qualified prior to solicitation, QPL No. 25438-2, FSN 6620-557-0582. No clearance required to receive APPI, USAAVCOM.

APPI No. AV-189. Altimeter, Pressure, Type AAU-8/A in accordance with Military Specification MIL-A-27229A with amendment. Applicable to multiple aircraft. This item is on QPL list 27229-2. Interested concerns should have their product tested and approved by contacting Wright Air Development Division, Wright-Patterson Air Force Base, Ohio, FSN 6610-722-9067. No clearance required to receive APPI, USAAVCOM.

APPI No. AV-190. Transmitter, Pressure, Electrical Data, AC, 26V 400 cycles, single phase. Connection 3P. Other than electrical connections, 1 7/16 in. dia. internal tube connection, 1 1-1/16 in. dia. O. PSI to 50 PSI measurement range, O/A dim., 4-23/32 in. lg., 2-1/4 in. dia. mtg. data, 1 attaching point, thread connection, MIL-T-25577, type MH-4, Appl. engine instrument acct. This item is on QPL list 25577. Interested concerns should have their product

tested and approved by contacting Wright-Patterson Air Force Base, Ohio, FSN 6620-553-8854. No clearance required to receive APPI, USAAVCOM.

APPI No. AV-191. Indicator, Altitude, External stabilization, pointer, used to show bank of aircraft, nonluminescent finish, single phase, DC, 28V, 1 electrical connection, O/A dim., 8.225 in. deep 5.000 in. dia., with instrument lamp, 14 pin contacts, bezel mil., 1 knob, for pitch trim. This is a QPL item. Interested concerns should contact Commander, Research and Technology Division, Systems Engineering Group, Aeronautical Systems Division, Wright-Patterson Air Force Base, Ohio, in order to have their product tested and qualified prior to solicitation, FSN 6610-965-9840. No clearance required to receive APPI, USAAVCOM.

APPI No. AT-138R1. Battery, Dry Charged, 12V type 21N 45 AMPH. This APPI was originally released 7 March 1967 and this revision reflects changes in the forecasted quantities, MS-35000-1, Specification MIL-B-11188. No clearance required to obtain this APPI revision, USATAC.

APPI No. AT-140R1. Cartridge Assembly, ORD 1092911. This APPI was originally released 7 March 1967 and this revision reflects changes in the forecasted quantities, FSN 2910-788-8457. No clearance required to obtain this APPI revision, USATAC.

APPI No. AT-146R1. Battery, Dry Charged, 12V type 61N 100 AMPH. This APPI was originally released 3 January 1967 and this revision reflects changes in the forecasted quantities, MS-35000-3, FSN 6410-057-2554. No clearance required to obtain this APPI revision, USATAC.

APPI No. AT-192R1. Tire Pneumatic, 900 x 20, 8 Ply, NYLON. This APPI was originally released 6 September 1966 and the change reflects changes in the forecasted quantities, ORD 515090, Specification MIL-T-46729-A, FSN 2610-262-8677. No clearance required to obtain this APPI revision, USATAC.

APPI No. AT-141. Sprcket, Drive, Track, ORD 8671597 is the drive sprcket for track on various combat tanks. The sprcket is composed of Alloy steel plate 1-5/8" thick x 27-3/4" O.D. The I, D. is machined & has a series of bolt holes for mounting purposes. The teeth are usually flame cut and finished by grinding or milling. This item is not considered difficult to manufacture. SNL APPL - Multiple - FSN 2530-318-0229. Security clearance is not required to obtain this APPI, USATAC.

APPI No. AT-142. Sprcket, Final Drive for M-88 VTR, ORD 8705891 is the drive sprcket for track on this vehicle. This sprcket is composed of Alloy steel plate 1-5/8" thick x 28-1/4" O.D. The I, D. is machined & has a series of holes used for mounting purposes. The teeth are usually flame cut and then finished by grinding or milling. This item is not considered difficult to manufacture. SNL APPL - G-298, FSN 2530-293-5136. Security clearance is not required to obtain this APPI, USATAC.

APPI No. AT-143. Sprcket, Track Drive, ORD 10891835 is the drive sprcket on the M107 - M110 family of Tanks. The sprcket is composed of Alloy steel plate 1-1/4" thick x 23-1/2" O.D. The I, D. is machined & has a series of bolt holes for mounting purposes. The teeth are usually flame cut and finished by grinding or milling. This item is not considered difficult to manufacture. SNL APPL - G-295A, FSN 2530-722-3633. Security clearance is not required to obtain this APPI, USATAC.

APPI No. AT-144. Sprcket, Track Drive, ORD 10954052 is the drive sprcket on the M108, M109 Tanks. The sprcket is composed of Alloy steel plate 1 3/4" thick x 21 5/8" O.D. The I.D. is machined and has a series of bolt holes used for mounting purposes. The teeth are usually flame cut and finished by grinding or milling. This item is not considered difficult to manufacture. SNL APPL - G-296A, FSN 2530-789-2204. Security clearance is not required to receive this APPI, USATAC.

APPI No. AT-145. Pin, Shoe, Link, ORD 10898687 is the pin that connects the sections of track shoes into a continuous belt, and is used on the M107 - M110 family of Tanks. The pin is composed of 7/8" hexagonal alloy steel x 18" (approximately) long w/threads on both ends. This item is not considered difficult to manufacture. SNL APPL - G-295A, FSN 2530-733-8153. Security clearance is not required to receive this APPI, USATAC.

APPI No. AT-146. Pad, Track Shoe, ORD 10866-003 is the removable rubber pad on T-130 track used on the M113 family of personnel carriers. Pad is composed of molded rubber and is approximately 2 1/2 x 6 x 8". This is a QPL item. SNL APPL - G-294 & G-312, FSN 2530-690-2681. Security clearance is not required for this APPI, USATAC.

APPI No. AT-147. Wheel, Idler, ORD 10907799, idler wheel is cast of Alloy steel, 17 1/4" G. D. x 3 1/8" thick. The I, D. is machined & there are bolt holes located around the hub for mounting purposes. This item is not considered difficult to manufacture. SNL APPL - G-294 & G-312, FSN 2530-856-2299. Security clearance is not required to obtain this APPI, USATAC.

Acquired to obtain this APPL. DATA

NOTICE

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated June 6, 1967 page 2, No. PSA 4325 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. EL-193, Public Address Set AN/GIH-3(C), Lightweight transistorized public address system designed for military ground and vehicular service. Each set will consist of a 250 watt amplifier with high and low impedance inputs, a remote control unit, noise cancelling microphone, and high efficiency, multi-tone, loudspeaker unit. Facilities are provided to drive additional amplifier units from a one signal source. Operates from standard vehicle power sources and is capable of projecting voice messages and music to distant targets. No security clearance required to receive APPI. USAECOM.

APPI No. EL-194. Coder-Decoder Transmitter Set AN/GRA-71(c). A complex of components that enables a man without skill in Morse Code to pre-record a Morse Code message on tape and subsequently use it to key the Radio Transmitter of the Radio Set AN/GRC-109. No security clearance required to receive APPI. USAFCON. USAFCON/AN/PRC-62(c). A

APPI No. EL-195, Radio Set AT-195, is a man-packed set which provides communication between combat units operating in jungle, desert or other areas. The set is continuously tunable in one kc steps over the frequency range of 2 thru 29,999 mc, thus providing 27,999 channels. This equipment is capable of operation while being transported. No security clearance required to receive APPI.—USA ECOM.

APPI No. KL-196. Transmitting Set AN/TRF-22A
Air transportable 50 KW MF radio broadcast trans-
mitter facility. No security clearance required
receive APPI. USAECOM.

APPI No. EL-197. Communications Central
TSC-26(). Provides facilities for receiving H.F. Rai
signals which may be manually keyer or high spe
burst C.W. Telegraph. No security clearance requir
to receive APPI. USAECOM.

APPI No. EI-198. Radio Terminal Set (RTS) 163(c). This configuration consists of all components necessary to provide Multiplexed FM communications of 4 ea. telephone channels simultaneously in the frequency range 30-76 Mhz. Equipment may be mounted in a jeep or 1/4 ton trailer or a removable pallet. The pallet may also be placed on the ground and the equipment operated independently from the vehicle. No security clearance required to receive this APPI. USAECOM, Fort Detrick, MD-51

APPI No. HI-199. Modem-Digital Data Interface (MD-667)/GRC. Functionally the same as Modem, Digital Data Interface (MD-668)/GRC but not mechanically interchangeable. No security required. See APPI, USAF/COM.

APPI No. R1-280, Radio Set AN/GRC-103 (V). Provides a full duplex multi-channel communication facility when used with 6/12 or 24 channel PCM or 4 channel FDM multiplex equipment. Operates in the frequency ranges of 220 to 405 MHz, 395 to 705 MHz, 695 to 1000 MHz, and 1300 to 1900 MHz when using the appropriate plug in units. No security clearance required to receive APPI USA-ECUM.

APPI No. EL-201. Ringer Converter Telephone
Signal CV-1548. Used at terminal stations to provide
ring-down and /or supervisory signaling, for twelve
communication channels. Capable of operating with
Central Office Telephone, Manual AN/TTC-7 and
Switchboard, Telephone, Manual SB-86/P. No security
clearance required to receive APPI. USA-
UCOM.

APPI No. EE-202. Multiplexer-TD-754 (Y/G) when used with Multiplexer TD-753 (Y/G) forms one terminal of a cable multiplex system. When used with Radio Set AN/GRC-103 () forms a radio-to-cable conversion repeater. This device processes 6, 12, 24 or 48 channel rate (PCM-TOM) digital communication signals for cable transmission. Two Multiplexer-TD-754 (Y/G) form an attended repeater. No security clearance required to receive APPI USAECOM.

23. A complete shelter-installed direction finding facility providing elevation and azimuthal data. No security clearance required to receive APPI. USA ECOM.

APPI NO. AP-1R-2 Case, Cartridge, 100mm, 144A1B1, one piece design, machined, manufactured from spheruloidized steel disc, deep drawn, approximately 3.2975" L x 5.3302" OD at base to 4.121" OD at mouth, wall thickness varies from approximately .085" to .059", body tapered and necked down completely heat treated, varying from Rockwell C34 at base section to RB 85 maximum at mouth, material steel, Specification MIL-S-3289 machined primer hole and base, zinc plating with supplementary chromate treatment, application of film of wax emulsion to exterior surfaces Specification MIL-W-3698, ballistic testing required for each lot. Manufacturing firm producing this item will require a highly competent technical staff of engineers, metallurgists, chemists, and tool design engineers to design, fabricate and maintain precision tools for mass production of this item. This cartridge case is considered very difficult to produce to applicable specifications. No security clearance required to receive APPI. USAMUCM.

APPI No. AP-2R-2 Case, Cartridge, 101
M94B1 Assembly, 24.0" L x 5.148" OD at base
3 major components, consisting of Tube, approxi-
mately 23.65" L x 4.693" OD tapering to 4.32" at
the mouth, wall thickness varies from 120" at base
cmil to .078" at the mouth, steel strip is perforated
with 1160 holes .312" in diameter and are welded
(submerged or inert gas shielded) to form ribs, Rock
well hardness requirement of C32 minimum at base
to B90 minimum at mouth, material, Steel, Strip,
1030. Specification QQ-S-700, tube is copper brazed
to Head, 5.148" D x 93" L, .8074" O primer hole
and 1-3/8 threaded filler plug hole, annular groove
permitted on small DD for brazing ring, material
Steel, Non-Resulphurized, Special Bar Quality, Specifi-
cation ASTM-A107, Plug 1.375" D x .40" L, 1-3/4"
external thread, two 25" blind holes on one end
material, Steel, Special Bar Quality, Specification
ASTM-A107. Heat treatment and stress relief must
be performed on the cartridge case body to obtain
the required mechanical properties. The head area
to be assembled receives a baked varnish finish after
phosphating. The plug is zinc or cadmium plated
This case is considered very difficult to manufacture
in accordance with applicable specifications. No sec-
urity clearance required to receive this APPI. US
MUCOM.

APPI No. AP-13R-1, "Fuze," MPTS with Detonator, Electric, M48 contains approximately (40) components and is cylindrical shaped, approximately 1-3/8" D and 5/16" L. The fuze is to be furnished detonator loaded with the fuze components furnished by MPTS manufacturer. Major components are: Housing, Rotor, cylindrically shaped, with various size holes, slots, counterbores, shoulders, length, 1.441"; D, 1.350", material is minimum-alloy rod, 2011-T3 or 2017-T4 Spec ASTM B211, or 2024-T4 Spec ASTM B221. Rotor: essentially a shaft with a cylinder containing various slots, counterbores, threads, and holes, on one end, over-all length, 0.716", shaft diameter, 0.125", outer diameter, 0.745", cylinder height, 0.372", material is aluminum-alloy rod 2011-T3 or 2017-T4 Spec ASTM B211. Cover, Booster: cup-shaped; OD 1.145", ID, 1.145", L, 0.220", material is aluminum sheet 1100-M12 Spec ASTM B209. Shield: essentially a hollow cylinder with dividing wall near one end, OD 1.250", ID 1.050", L 1.648", material is minimum-alloy tubing, Spec QQ-T-830. Various smaller components required such as brass strip plates, pins, springs, washers, springs, spacers, leaves, contacts, and washers. Assembled fuze subjected to following tests: arming, non-arming, functioning, joint and vibration, and transportation vibration. Manufacture of this item will require a firm's bidding on this item will require a

competent technical staff consisting of engineers, metallurgists, and tool engineers to design and maintain precision tools to produce and test the required parts. This item is considered very difficult to produce and test the required parts. This item is considered very difficult to produce in quantities normally required by Ordnance. In addition, a considerable amount of knowledge of various metal-working processes will be required to produce this item in accordance with Ordnance specifications. No security clearance required to receive this APPL. USA-MUCOM.

APPI No. AP-33R-2, Mine, APERS, M18A1, Units
Arrangement, Twelve (12) components, 8.464" L x
3.968" W x 4" H with leg and bracket assembly.
Ball, 7/00 each/ .211" spherical diameter, material,
steel, bar, C1015 to C1020. Specification, QQ-S-633.
alternate, steel, wire, 1015 to 1020. Specification,
QQ-W-461. Carboize, case depth, .045 to .065, heat
treat to surface hardness of Rockwell C45 to C52.
Case, 8.464" L x 3.968" W x 1-3/8" H on a curve
radius x 7/8" alternate width for sighting section,
one piece, material, plastic, polystyrene glass fillet,
Type I, Specification MIL-M-21347. Color green,
similar to No. 34096 or 34102 of Federal STD-595.
Cover, 8.651 L x 3.63" W x 5/16" H, material, same
as Case above, segments and sections of case and
cover are made up of varying wall thickness. Bracket
angle, 125° each/ right angle, each leg, 705°
.52" W x .125" thick with two 72°/ 196° D notes.
material, steel, strip, hot rolled. Specification, ASTM-
A415. Leg 4 ea/ 4.398" L x .265" W x .125" thick
material, steel, strip, hot rolled.

with .64" D one end, material, steel, strip, 1/4" thick, Specification ASTM-A415. Washer spring, 4/ each/ approved source, Shakerprint, part no. 3502-10-56 stainless steel or government engineering approval required. Rivets 1/4 each/ military standard. Washer, 1/2 each/ military standard. Cup, Welt, 2/ each/ enn shape, 1.57" L x .281" D x .910" thick with .385 flange edge, material, aluminum alloy, sheet, 1100F, Specification ASTM-B-209. Shipping Pkg., priming adaptor, eccentric shape, threaded both ends, with .25" hole one end, .32" hole opposite end, material, plastic, polyethylene, molder. Type T, Class L, Specification, L-P-390, color same as case and cover. Balls to be bonded inside case using Devcon B-1835 in a matrix. Mine case and cover shall meet stringent load requirements of 175 pounds and 60 pounds respectively, plus fluid hot and cold temperature conditioning and testing. Tooling and molding process equipment is extensive and requires a high fabricating process capability with rigid control of basic molding materials. Manufacturing firms specializing on this item will require metallurgists, plastic technicians, engineers and precision tools for mass production of large quantities of this item normally required by the Army. This item is considered extremely difficult to manufacture. No security clearance required to receive APPL. USAMUCOM.

APPLI CON. AP.36R.3. Projectile. HEAT-
M344A1 with M8 Fin. MPTS. This projectile assembly,
16.43" L. x 4.128" in diameter, consists of 10
component parts; the major components are Body,
7.68" L. x 4.128" OD, 3.555" ID, counterbored and
internally threaded on both ends, 2 bonnetlets and
an annular groove on the OD, material, steel, tubing,
seamless. Spec. QQ-TA-010 or steel, forging, Special
Bar Quality, Specification ASTM-A107; Oelze, 8.116"
L. hollow truncated cone with a 4.14" OD tapering
to 3.731" at the opposite end, .144" wall thickness,
external thread on both ends, material, steel, forg-
ing, Special Bar Quality, Specification ASTM-A107
or steel, cold extrusion, Specification MIL-S-13130;
Cone, 1.819" L. hollow truncated cone, closed on
the small end, 3.584" OD tapering to approximately
.616" at the opposite end, .18" wall thickness, mate-
rial, copper, strip, cold-rolled, deep drawing, an-
nealed, Specification QQ-C-576; Chamber, 3.10" L.
nearest, Specification QQ-C-576; external thread on one end, internal
thread on other end followed by a radius, a reverse
thread on the other end, a 1.78" thread, a counterbore and
a .264" through hole with 4 equally spaced longitudinal
slots on the circumference, material, Aluminum Alloy, forg-
ing, Specification QQ-A-367
Aluminum Alloy, Specification QQ-A-200/3A or QQ-
A-225/6A; Plug, .39" L. x 1.571" OD, 1-7/8 external
thread, 2 blind holes 100 degrees apart on the base,
one blind hole in vertical Aluminum Alloy, Specified
composite end in vertical Aluminum Alloy, Specified
Specification QQ-A-200/3A or QQ-A-225/6A; other part
consist of polyamide insulator and conduit, bra-
ze, stainless steel wire with Polyamide Insulation
terminal, wire terminal and carbon steel olive cap. F.
Assembly, 11.22" L. x .993" in diameter, consists
of 16 component parts, varying in depth, from 1.54"
Fin 16 each, 8.93" L. varying in depth, .040" thick
at the base to .924" at outer extremity, .040" thick
at top to .260" at the bottom, .25" hole throat
base with a full depth involute spur gear to
space on outside radius at bottom of base, material,
Aluminum, Forging, Specification QQ-A-367; H.
ing, 2.91" L. x .938" OD, 1.65" ID 6 pair of
on one end with .25" hole through each, other
counterbored with a .030" x .06" shear ring rear
thread on the circumference, 3.5" thread on the
material, Aluminum, Forging, Specification QQ-A-200/
367 or Aluminum Alloy, Specification QQ-A-200/

or QQ-A-225/6A; Piston, 2.93" L x 1.88" in diameter, 1.38" internal diameter on large and necked down in 2 steps in a .196 internal diameter on the small end, 1.625" thread on large OD, circumferential rack gear tooth on opposite end, material, steel, carbon, bar, cold finished, Specification ASTM-A108; Stop, Piston, .51" L x 1.824" OD and 1.635" thread on the ID, undercut and taper on OD, material, steel, carbon, bar, cold finished, 1137 or 1117, Specification ASTM-A108 or steel, tube, seamless CDST, M11024, 1022 in 1035 Specification QQ-T-350, other parts are plus /6 each and an "O" ring. This item must withstand vigorous ballistic tests for such characteristics as security of metal parts, fin opening and penetration. Manufacturing firms producing this item will require a competent staff of engineers, metallurgists and tool designers. The item is considered extremely difficult to produce in accordance with applicable specifications. No security clearance required to receive APPI, USAMUCOM.

APPI No. AP-51R-3, Rocket, Motor, 66mm, M54. This APPI which was issued 4 April 1967 is corrected to show Alcan Aluminum, Riverside, California as the current supplier in Block 4b. No security clearance required to receive APPI, USA-MUCOM.

APPI No. AP-66R-1, Mine, AT M24. This item essentially consists of the Firing Device, Demolition, XM61, Rocket Launcher Assembly XM143 and the Cable Assembly, Vehicle Detector. Fundamentally, the complete assembly is a complex electro-mechanical device. Major assembly drawings for these basic units which are part of the complete XM24E1 end item are classified. No security clearance required to receive APPI, USAMUCOM.

APPI No. AP-72R-1, Projectile, Chemical, M121E1 MPTS Assembly consists of six /67 components. Body, approximately 23.75" L x 6" D, nose section threaded and precision finished with 16 to 32 micro-inches, material, steel, ASTM-A273 or MIL-S-11310, Adapter, Fuse, 2.88" D x 2.23" L x 1.909" ID, external and internal threads, material, steel, ASTM-A107 special bar quality or steel tubing, Specification MIL-T-830, Rolling Band, 6.36" D x 6.09" ID x 1.075" W, material, gilding metal, Specification MIL-B-20292 or MIL-B-20295, Gasket 2.19" D x .43" ID x .125" thick, material, rubber, neoprene, or S. Class SC, Grade SC515, Specification MIL-65, VCI Paper, approximately 20" square, material, volatile corrosion inhibitor paper, Type I, Class 1, Specification MIL-P-3420, Gasket Shp., 2.83" D x 2.5" ID x .13" thick, material, rubber, Specification MIL-R-3065, Type S, Class SC, or SC520 A, B, as specified in MIL-STD-417. A pneumatic inspection in the nose section of a projectile is required. Each projectile must stand a helium gas test. Exterior is surrounded by a one atmosphere of helium, a maximum of any /20 microns of mercury absolute pressure. Maximum leak permitted is 1 x 10 minus 6 centiliters per second. Projectiles are packed on wood pallets for shipment. This item is considered very difficult to produce to specification requirements. No security clearance required to receive APPI, USAMUCOM.

APPI No. AP-74R-1, Fin Assembly, M2, 2.375" D x 2.535" L, and consists of two components, Cartridge Container, .94" D x 2.420" L, one end has 658" D bore extending to depth of 1.86", with 75-18NS2R internal threads, .4" minimum depth, and a .870" D x .866" deep counterbore. The other end has a shoulder .365" from end and is threaded externally 625-18UNF-2A x .265" L. Sixteen, .1865" D holes extend radially through the sidewall into the .65" D cavity at various locations, material, steel bar, carbon, CF, Grade 1137, Specification ASTM-A108, Fin, .0625" thick x 1.90" L, single piece construction consisting of two blades and a prior to forming of the .47" hub radius. Four fins per assembly are located on 90 degree centers and copper brazed to cartridge container. Final protective finish. Specification MIL-STD-171, finish number 1.1.1 and 20.1, olive drab number X34087. The fin assembly is considered not difficult to produce. No security clearance required to receive APPI, USA-MUCOM.

APPI No. AP-92R-1, Mine, AP, M16A1. Complete assembly is approximately 4" D x 3-1/8" L and consists of approximately 17 components. Body, 3.85" D x 3.89" L and 3.275" ID, 3.35" deep with counter-bore and threads, material, gray iron casting, Well, Detonator, cup shape approximately 1" D x 2.4" L, with short threads on outside and inside, material, zinc base alloy, die cast or Polystyrene plastic, Plug, 1.45" D x .46" thick with hub 1" thick x 1-3/8" D with 13/16" threaded hole, material, gray iron casting, Pipe, Flash, approx 1" D x 3.5" L and 3/32" ID with short threads on each end, material, zinc base alloy, die casting or 1/2" standard steel 4.74" L, fabricated from .014" thick steel by seam-welding and crimping. Other miscellaneous components consist of gaskets, copper strips, cup, detonator, aluminum sheet .015" thick, Plug, shipping, zinc base alloy, die casting or Polystyrene

plastic. Disc, flash, gilding metal .003" thick, Washer, lead sheet .062" thick, Plug, filter body, steel 1009 in 1020 .059" thick, Gasket, rubber .078" thick, Bushing aluminum alloy and 1.125" D, Holder, Delay, zinc die casting or aluminum rod .922" D, Housing Delay, zinc base alloy, die casting or aluminum alloy rod 1/2" diameter and Washer, Delay. Same material as Holder, Delay. Various components require phosphating, painting, plating, to meet various salt spray requirements. Manufacturing firms bidding this item will require a competent staff of engineers, metallurgists, and tool engineers to design and maintain precision tools. This item is considered somewhat difficult to produce in accordance with specifications. No security clearance required to receive APPI, USAMUCOM.

APPI No. AP-93R-1, Fuse, Mine, M605, MPTS—Is 4.44" L x approx .94" W with 3 assemblies and 22 components. Release safety assembly, consisting of standard nitrade eyelet cotter pin and 10" cord, material, commercial glazed curtain flature #2 or commercial white 8 strand cotton cord, Pin, safety striker positive assembly, 2 components, cord, 10" L, material, cord, linen, waxed, 6 ply and pin, safety striker, 1.0" L, 1.11" max D with 3 machined stops to minimum of .044" with holes drilled in diameters at each end, material, zinc base alloy, die cast, comp. B, alternate aluminum alloy die cast, comp. 5, 5A, 10 or 11, Prong, 3 ea., 1" L x .075" D with flats .078" x 1/16" W, 1/8" from end of prong, material, steel, music wire, Head, safety, .50 L x .285" D, drill thru .125" D with slot .075" x L, material, aluminum alloy rod, condition T, alternate aluminum alloy die cast, comp. 5, 5A, 10 or 11, alternate zinc base alloy, comp. B, Pin, 1.9" L x .0360" D with .08" eye ID at one end, material, steel, music wire, Pin, .98" L x .280" D with machined flat on side to .246" x .55" L off center hole .312" D, and trimmion, .212" D x .425" L, material, Steel, bar FS1117, CF, Trigger, 1.225" L, material, diameter .665" step diameter .375" with .129" center hole tapered .226" deep on one end with .42" L, flat on opposite end, material, zinc base alloy die cast, comp. B, alternate aluminum alloy die cast, comp. 5, 5A, 10 or 11, Ring release, 3/8" OD with 2 projecting ends, approx 2 full coils, material, steel, Spring, .194" DD x 4-1/2 coils, free helical, 2.77" material, steel, .025" D music spring wire, Spring, .29" OD x 18-1/2 coils, free helical, 1.473" material, steel, .045" D music spring wire, Striker, 3.213" L x .126" D with collar .21" D with flats .180" W taper point, material, steel, bar, FS1117, Case, 2.13" L x .505" D with two stepped collar .755" and thread with .4375" UNF-1B plus thread .625" - 11UNC-1A comp. B, alternate aluminum alloy die cast, comp. 5, 5A, 10 or 11, Washer, 8 point star shaped, .368" ID x .128" ID x .0538" thick material, steel strip, FS1009, CR, temper #2, finish #3, alternate, steel, strip, FC1015 or FS1020, CR, temper #4, finish #1, Gasket, 75" OD x .52" ID x .078" thick, material, synthetic rubber, shoe, type RS, 510BF2, Spring, .65" OD, 3 coils, free helical, .57" material, steel, .051 D diameter, music spring wire, Plug, .348" OD tapered at 15 degree x .13" ID x .173" thick, Housing UNF-1A, .115" L and thread .4375" - 20 UNF-1B, L, material, aluminum alloy rod, alternate, L x .375" max D with one end thread, .4375" - 20 UNF-1A, .05" to .24" L, center bores .199" D x 1" L and .101" D x .52" L, machined and double L x .237" OD with .217" ID and .011 base wall, material, aluminum alloy, steel, temper "O", This item is considered difficult to manufacture in accordance with specifications. No security clearance required to receive APPI, USAMUCOM.

APPI No. AP-123, Firing Device, M57 — The M57 Electrical Firing Device is a small hold pulse detonating which supplies electrical energy for handle of the M16A1 Mine. A single squeeze of the pulse (one positive, one negative) to the M4 electric blasting cap. The M57 can be activated more than M57 consists of malfunction. Components: The armature, spring, cap, case (right and left hand). Dimensions: Length — Overall, including the handle connector is approx 4". The length excluding the handle in extended position — is approx 3.625". The height with the handle in the depressed position is 1.3". Material: Case and handle — plastic polystyrene, glass filled type I, Spec MIL-M-21347 — STD 595 Note 6, Connector, male — this is a two prong connector moulded in rubber which is assembled as an integral part of the completed assembly. The rubber insulation material is type R, Class RS, Color (black) — Grade 615 A, B, F, K energy, when handle is depressed shall measure not less than 18 milliwatt-seconds nor more than 30

milliwatt-seconds as dissipated through 1.76 ohms and a .225 ohm load. Total time to deliver this energy shall not exceed .54 milliwatt-seconds, nor be less than 10 milliwatt-seconds, actually, mechanism shall return to original cocked position and be capable of repeated use with a double pulse (positive and negative) for each activation. Activation rate shall be approx 5/100. The M57 is a difficult to make, therefore, the contractor should have a highly competent engineering, production, and quality assurance capabilities. Further, the contractor must be capable of meeting all applicable specifications. No security clearance required to receive APPI, USAMUCOM.

APPI No. AP-124, Test Set Electric, M40 — The M40 Test Set is a small auxiliary test device for the M57 Firing device. Its function is to test the electrical output of the M57 by means of a visual neon indicating light. M40 case is rectangular in shape with a protruding two-prong male connector on one end and a two-socket female receptacle on the other. The connector pins and receptacle sockets are moulded in a rubber elliptical configuration. The internal circuitry consists of an appropriate position to simulate the load and a neon indicating bulb which is viewed externally through a small glass window of the test unit. Dimensions: The case length, less connector and receptacles is approx 2.25". Overall length, including receptacle and connector, less than covers is approx 3.125". Width of case is approx 1.25". The case thickness is approx 1.3". Material: Case — polystyrene, glass filled, type I per MIL spec, MIL-M-21347, the color shall be green — No. 34096 or 34102 per FED-STD-595, Note 6, Moulding material (connector and receptacle) — Type R, Class RS — Color, black — Grade 615 A, B, F, K per MIL-R-3065. This item is not considered difficult to make. No security clearance required to receive APPI, USAMUCOM.

APPI No. FA-6B, M1A1 Box, Required for all versified use in the packaging of small arms ammunition and auxiliary fuses. Steel construction finger cover with varying strap and wadded gasket. Approximate dimensions 12 x 6.3/12 x 7 1/2. No Federal Stock Number. No security clearance required to receive APPI, USAMUCOM.

APPI No. FA-61, M18 Initiator. Consists of a constant volume chamber with a pressure outlet port, incorporating a standard pressure fitting, a gas pressure actuated firing mechanism and AM91 Cartridge. A length of tube or hose connects the initiator to another remotely installed propellant device. Is considered difficult to produce and requires rigid inspection and Quality Assurance. FSN 1377-734-9886. No security clearance required to receive APPI, USAMUCOM.

APPI WE-273, Aperture, Rear Sight. This is a small arms part for the M79 Chemical Launcher. This component is made of brazed steel. It is stamped, formed, rolled, heat-treated, and phosphated coated. This component is moderately difficult to make. FSN 1010-441-1153. No security clearance is required. USAWEUCOM.

APPI WE-274, Latch, Engine. Designed for bench use, solid link type, 10 in. gated swing, 20 in. center distance w/solid link, step cone pulley, lock geared drive headstock, No. 2 Morse taper center size, 1/8 in. hole through spindle, 8 spindle speeds, min. hand & power cross feed, 1 carbide, quick change, 30 feed changes, min. electric motor drive, 3/4 hp, ac, 110 v, 60 cycle, single phase, in accordance with Fed Spec DTL-125, FSN 3416-517-0955. No security clearance is required. USAWEUCOM.

APPI WE-275, Kit, Tailors "The Repair (Outside to) Adams PSP Inc. Model 100 or equal. Include: Metal Curry Box 1 ea., Infector Tent with Needle 1 ea., Refill Cartridge 4 ea., Leak Seeker Dispenser 1 ea., Leak Seeker Material 1 ea., Bmding Compound 2 ea., Skidging Kula 1 ea., Needle, 8" 2 ea., FSN 4910-922-6921. No security clearance is required. USAWEUCOM.

APPI WE-276, Meter, Time Totalizing. A direct reading drum type indicator with other technical requirements. Meter is to be in accordance with Spec. MIL-M-3971 and Opl. Dwg. C8636343. FSN 4643-557-0159. No security clearance is required. USAWEUCOM.

APPI WE-277, Case, Lubricant for Rifle M1, M14, and Launcher grenade M79. The lubricant case consists of the tube assembly; Cup assembly, grease; and cap assembly, all. The entire case has a maximum length of 2.7 inches. FSN 1005-791-3377. No security clearance is required. USAWEUCOM.

APPI WE-278, Safety. This is a small arms part for the M14 and M1 Rifles. The material requirements for wrought material are steel, Fed Spec QQ-S-634-1021 and for precast castings, steel, MIL-S-22141-IC-8620. Inspection will be in accordance with MIL-C-6021. Heat treatment is required for all material. FSN 1005-554-6015. No security clearance is required. USAWEUCOM.

APPI WE-279, Counter, Rotating, Mechanical, Direct Drive. This counter is utilized on the M113, M115, and M17 panoramic telescopes. Counter shall meet the requirements of Spec MIL-C-60618

with dimensions and tolerances in accordance with MIL-STD-8, FSN 6680-907-0737. No security clearance is required. USAWECOM.

APPI WE-280. Reticule. This is an equipment of the M3, M13, and M13A1 Binoculars. It is in accordance with MIL-P-14619 and is considered difficult to manufacture. Inspection Requirements are listed in the TDPI, which will be available to all interested holders. FSN 6650-617-3980. No security clearance is required. USAWECOM.

APPI WE-1. Rifle, Cal. .22, M12 published previously in the 2 March 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-2. 22 Cal. Automatic Pistol published previously in the 2 March 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-5. Armament Subsystem, Helicopter, 40 MM Grenade Launcher M5 published previously in the 1 June 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-8. Stun Gun, 12 Gauge, Riot Type published previously in the 7 September 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-12. Saw published previously in the 2 November 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-13. Magazine, Cartridge published previously in the 2 November 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-14. Target, Sighting published previously in the 7 December 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-16. Stock Subassembly published previously in the 7 December 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-212. Range Finder, XM23E2 published previously in the 6 December 1966 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI No. AV-191R. Imbleator Attitude. External stabilization, pointer, used to show bank of aircraft, nonluminous finish, single phase DC, 28V, 1 electrical connection, O/A dim., 8.225 in. deep, 5.000 in. dia., with instrument lamp, 14 pin contacts, bezel mil., 1 knob, for pitch trim. This is a QPL item. Interested concerns should contact directorate of technical data, cataloging and standardization, standardization Division, U. S. Army Aviation Materiel Command, St. Louis, Missouri, 63166, Attn: AMSAV-MN, in order to have their product tested and qualified prior to solicitation. FSN 6610-965-2840. No clearance required to receive APPI. USAWECOM.

APPI No. AV-192. Release, Cargo, Parachute, 1300 pound minimum load capacity, 5000 pounds maximum capacity in accordance with MIL-Spec, MIL-R-43003B with amendments and NLABS drawing 11-1-71, Revision "E". FSN 1670-799-8494. No clearance required to receive APPI. USAWECOM.

APPI No. AV-193. Parachute, Cargo, 100 Ft. Dia. canopy, olive green, shade No. 106, nylon, flat circular, with reefing rings and enter pockets. Size packed; 48-5/16 in. LG., 35-1/2 in. W., 6 in. H. 250 lbs. total packed weight. Attached by loops on 60 ft risers. Load capacity 3500 lbs., @ 185 MPH. List of major components include: 1 canopy part number 4817841-3, 1 bag, deployment number 50K7415 and 1 bridle part number 52D6354, in accordance with MIL Spec MIL-P-7620 and USAF drawings 51C6718 and others with exceptions. FSN 1670-269-1107. No clearance required to receive APPI. USAWECOM.

APPI No. AV-194. Parachute, Personnel, back style, 28 ft. dia. in accordance with USAF drawing 50C7024, latest revision, and details listed in bid. This item is on QPL list No. 6645-F dated 24 March 1966, and MIL-STD-849, 8 April 1965. Interested concerns should have their product tested and qualified by contacting the Aeronautical Systems Division, ASNPSP-3, Wright-Patterson AFB, FSN 1670-805-9036. No clearance required to receive APPI. USAWECOM.

APPI No. AV-195. Parachute, Personnel, Troop back-pack, attached back, olive drab, cotton, canopy 35 ft. dia., olive green, nylon, harness, quick release, olive drab, nylon AF 5916173. Canopy opened by static line. In accordance with MIL-Spec MIL-P-66451 with amendment and MIL-STD 849 dated 8 April 1965 and AF drawing 5916228. This item is on QPL list 6645-14. Interested concerns should have their product tested and qualified by contacting the Aeronautical Systems Division, ASNPSP-3, Wright-Patterson AFB, FSN 1670-753-3727. No clearance required to receive APPI. USAWECOM.

APPI No. AV-196. Parachute, Cargo, extraction, canopy, 22 ft. dia. in accordance with USAF drawing 59B6209, latest revision with exceptions as stated in bid. FSN 1670-487-5458. No clearance required to receive APPI. USAWECOM.

APPI No. AV-197. Parachute, Cargo, extraction, 15 ft. dia. nylon canopy, without platform release cable assembly, in accordance with MIL-P-7620B and MIL-C-9411A with amendments and exceptions, as stated in bid. AF drawing 61A4312 with exceptions also applies. FSN 1670-052-1548. No clearance required to receive APPI. USAWECOM.

APPI No. MI-82. AN/GSA-77 Data Converter for the Control and Coordination System. Allows complete check of battery output, battery interface, ITE and battery display equipment, maximum size 5 1/2 in. ft., weight 300 lbs, power output 300 watts, MTBF 2500 hrs. No clearance required to obtain APPI. USAMICOM.

APPI No. MI-69R1. Control Surface Actuators — TOW Missile System — Two-position, linear-stroke, Helium-Gas operated actuators drive the missile control surfaces. Extension of the control surfaces from the folded position activates the system, releasing compressed gas from the storage bottle into a manifold. Variation in the dwell times at the end of the stroke achieves the effect of proportional control surface deflection without the high cost of proportional-deflection actuators. No Federal Stock Number Assigned. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. MI-2. Cancellation of APPI. Bistatic Radar Reflectors, published in the 6 April 1965 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. MI-5. Cancellation of APPI. Fail Safe Kit, published in the 4 May 1965 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. MI-23. Cancellation of APPI. Target System Missile, published in the 6 July 1965 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. MI-39. Cancellation of APPI. Shillelagh Dummy Guided Missile, published in the 7 December 1965 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. MI-57. Cancellation of APPI. Alignment Test set, Transmitter, Shillelagh, published in the 5 July 1966 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. ME-4R2. Generator Set, Gasoline Engine-Driven, 5.0 KW, 60 cycles per second, alternating current, air cooled, portable, tubular frame, skid mounted. Set shall consist of a model SF-5.0-MD, portable, 5 KW, 0.8 pf lagging, 60 cps, ac air cooled, tubular frame, skid mounted generator and a Government furnished military standard engine, model 2A042, FSN 2805-776-0484. Overall dimensions shall be 39 3/4 inches long, 30 inches wide, 25 inches high and net dry weight shall be 440 lbs. Operating (rated) speed is 3600 rpm. Set shall be connectable for 3 phase, 4 wire, 120 volts line to neutral and 208 volts line to line (120/208 volts); 3 phase, 3 wire, 120 volts line to line, single phase, 2 wire, 120 volts, single phase, 2 wire, 240 volts. Set shall start and operate, without external heat, at ambient temperatures from plus 125 degrees F to minus 25 degrees F at any relative humidity. With external heat, set shall start and operate at ambient temperatures from minus 25 degrees F to minus 65 degrees F. Ambient temperature within control box shall not exceed 175 degrees F under all operating conditions. Set is intended to supply power for general purpose use. In accordance with MIL-G-52279A and Dwg. No. DL1321IE6695. FSN 6115-017-8240. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-24R2. Bridge Unit, Amphibious, Mobile, Floating, Assault, Interior Bay. Includes hull with its propelling mechanism. The hull is an aluminum, amphibious, self-propelled, wheeled vehicle which serves as an interchangeable carrier for the bridge superstructure. The unit is a water tight amphibian mounted on four by four chassis. The wheels are fully retractable in wheel wells. The operating power for the wheel axles, rudder-propelled unit, hydraulic pumps, compressor and bilge pump is supplied by diesel engine through a distributor gear unit. The hull contains all brackets, appurtenances and accessories as required to mount the machinery and superstructures so as to form a vehicle capable of transporting, serving as a floating support, providing actuation power and marine propulsion for the floating bridge and ferry. The superstructure (bridge unit or deck unit) is the interior unit used to form floating bridges and ferries, fabricated of low alloy steel. On entering water, the superstructure (deck section) is rotated 90 degrees by hydraulic power and automatically moved into position. Each deck end has hydraulic pin connections and male and female adapters for rigid forming of bridge sections. In accordance with MIL-H-52354A, MIL-B-52355A, MIL-S-52356A; Drawing Numbers DL13207E-1540, DL13207E-5410 and DL13207E-1520. FSN 5420-010-5191. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-25R2. Bridge Unit, Amphibious, Mobile, Floating, Assault, End Bay. Includes hull with its propelling mechanism. The hull is an aluminum, amphibious, self-propelled, wheeled vehicle which serves as an interchangeable carrier for the bridge superstructure. The unit is a water tight amphibian mounted on four by four chassis. The wheels are fully retractable in wheel wells. The operating power for the wheel axles, rudder-propelled unit, hydraulic pumps, compressor and bilge pump is supplied by diesel engine through a distributor gear unit. The hull contains all brackets, appurtenances and accessories as required to mount the machinery and superstructures so as to form a vehicle capable of transporting, serving as a floating support, providing actuation power and marine propulsion for the floating bridge and ferry. The superstructure (bridge unit or deck unit) is the end bay (ramp) unit used to form floating bridges and ferries, fabricated of low alloy steel. On entering water, the superstructure (deck section) is rotated 90 degrees by hydraulic power and automatically moved into position. Each deck end has hydraulic pin connections, male and female adapters for rigid forming of bridge sections. This hydraulically operated section can accommodate banks to ten feet above water level and 2 feet below water level. In accordance with MIL-H-52354A, MIL-B-52355A, MIL-S-52356A; Drawing Number DL13207E-5410, DL13207E-1520 and DL13207E-1530. FSN 5420-010-5192. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-27R2. Tank Assembly, Fabric, Collapsible; 10,000 gallon, petroleum. Tank shall consist of a collapsible, barrier-coated fabric tank, vent pipe assembly, inlet and outlet fitting assemblies of fabric reinforced, flanged type. Tank and components shall withstand ambient temperatures from plus 150 degrees F to minus 40 degrees F. Unless otherwise specified, body fabric shall be single ply. Fabric shall be nylon, square woven cloth with a maximum weight of 8.5 plus or minus 0.2 ounce per sq. yd. Coating compound shall be resistant to hydrocarbon fuels. Tank shall be fabricated and vulcanized as a complete unit in a steam pressure type autoclave. Tank handles shall be of rubber coated, nylon fabric and withstand a pull of 1,000 lbs or not less than one minute. Tank shall not leak and there shall be no evidence of seepage when tank contains 10,000 gallons of fuel, no air leakage when under an internal pressure of one psi. Vent assembly, pressure relief valve shall open when tank is subjected to an internal pressure of three inches of water. Filler elbow assemblies shall withstand a hydrostatic pressure of fifteen psi without failure. Tank assembly is intended to be used for the storage of hydrocarbon products in connection with light weight hose line fuel supply systems. Components are listed in the Army Supply Catalog SC5430-93-CL-F61. Complete Tank Assembly shall conform to Drawing DL13207E-6370. Fabrication of tank shall be in accordance with MIL-T-42260B with Amendment 1 and Dwg. No. DL13200E6380, FSN 5430-641-8552. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-44R1. Air Conditioner, 18,000 BTU/HR. Base mounted, self-contained, compact lightweight, air cooled. The refrigeration system shall be of the vapor cycle type employing monochlorodifluoromethane. The compressor motor assembly shall be of the hermetic type in which the compressor and motor are enclosed in the same housing. There shall be no external shaft or shaft seal and the motor shall operate in a refrigerant atmosphere. Motor for compressor shall be 2 hp, ac, 208 volts, 400 cps, 3 phase; motor for condenser and evaporator fan shall be 2 hp, ac, 204 volts, 400 cps, 3 phase. Nominal cooling capacity 18,000 BTU/HR at 600 CFM rated capacity; nominal heating capacity 12,000 BTU/HR at 600 CFM rated capacity. Cabinet shall be made of aluminum with enamel finish. The maximum weight of the air conditioner including the control box and a full charge of refrigerant and oil shall be 225 lbs. The air conditioner is intended for use in providing conditioned air to maintain adequate working temperatures in vans. Air conditioner may be installed indoors or may be exposed to the weather. In accordance with MIL-A-52344A, class 2 and Dwg. No. DL1321E18135. FSN 4120-061-2869. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-50. Cancellation of APPI. Published previously as APPI No. ME-50, air conditioner, 60 cns. 36,000 BTU, in the 7 December 1965 issue of Commerce Business Daily is hereby cancelled. APPI No. ME-50 is replaced by ME-71. USAMEC.

APPI No. ME-97. Cancellation of APPI. Published previously as APPI No. ME-97, Generator set, GED, 7.5 KW, 28.5 volts, direct current, wheel mounted in the 7 June 1966 issue of the Commerce Business Daily is hereby cancelled. APPI No. ME-97 is replaced by ME-115. USAMEC.

APPI No. AT-76R7A. Track, Shoe Set, Ord 10935723. This APPI was originally released in July 1966 and this revision reflects changes in the quantities forecast. FSN 2530-955-9448. No Security Clearance required to receive this APPI revision. USA-TAC.

APPI No. AT-89R1. Transmission Assembly W. Motor. Ord 5703527. This APPI was originally released in September 1966 and this revision reflects changes in the quantities forecast. FSN 2530-691-4677. No Security Clearance required to receive this APPI revision. USATAC.

APPI No. AT-117R1. Regulator, Engine, Generator Control Assembly. 25 AMP. 24 Volt. MS-51356-1. This APPI was originally released in January 1967 and this revision reflects changes in the quantities forecast. FSN 2530-691-4677. No Security Clearance required to receive this APPI revision. USATAC.

APPI No. AT-146R1. Pad, Track Shoe. Ord 10919004. This APPI was originally released in May 1967 and this revision reflects changes in the quantities forecast. FSN 2530-690-2681. No Security Clearance required to receive this APPI revision. USATAC.

APPI No. AT-150. Road Wheel, Solid Rubber. Ord 10919004. This is a component of the Drive Track on the M42 M43 family of combat tanks. The Steel Disc is formed, three piece, welded construction. Approximately 21" O.D. x 1 1/2" thick. Rubber is bonded to the O.D. This is a QPL item. There are ten (10) holes around the hub I.D. for mounting purposes. FSN 2530-691-4677. SNL — G254 family. No Security Clearance required to receive this APPI. USA-TAC.

APPI No. AT-151. Wheel Assembly, Solid Rubber, Track Support. Ord 8674928. This is a component of

Track on the various tracked vehicles in the Medium-light tank family. The assembly is composed of a one (1) piece steel disc (formed) with rubber vulcanized to O.D. of the Disc. The O.D. including rubber 12" x 3" wide. There are six (6) holes drilled around the O.D. for mounting purposes. This is a QPL item. FSN 2530-699-7849. SNL — Various. No Security Clearance required to receive this APPI. USATAC.

APPI No. AT-152. Road Wheel, Solid Rubber, Tire. Ord 10919004. This is part of the track suspension system on the M108-M109, Self propelled Howitzer carriers. This assembly consists of an aluminum forged disc with a steel wear plate riveted in place and rubber vulcanized to the O.D. of the wheel. The O.D. including rubber is 24" x approximately 5" wide. There are ten (10) holes drilled around the I.D. for mounting purposes. This is a QPL item. FSN 2530-601-6702. SNL — G296. No Security Clearance required to receive this APPI. USA-TAC.

APPI No. AT-153. Road Wheel, Solid Rubber, Tire. Ord 10891631. This is part of the track suspension system on the M107-M110, Self propelled Howitzer carriers. This assembly consists of a formed steel disc with a steel support ring welded to the disc. Rubber is vulcanized to the O.D. of the disc. The O.D. is 32 1/4" including rubber x approximately 4 1/2" wide. This is a QPL item. FSN 2530-722-3630. SNL — G295. No Security Clearance required to receive this APPI. USATAC.

APPI No. AT-154. Wheel, Solid Rubber, Tire. Ord 9092158. This is part of the Track suspension system on the Hawk Transporter. This assembly consists of a forged Aluminum disc approximately 21" D.D. x 3" wide with rubber vulcanized to the D.D. of the wheel. This is a QPL item. FSN 2530-679-7922. SNL-11391A. No Security Clearance required to receive this APPI. USATAC.

APPI No. AT-155. Track Shoe (T-138). Ord 10948405. This is part of the track assembly on the XM-551 Armored Assault Vehicle. The assembly consists of an Alloyed Steel hanger, which is rubber backed — moulded into the steel body & a Pin & 2 nuts furnished. The assembly weights approximately 18 lbs & is 17 1/2" long x approximately 5" wide. This is a QPL item. FSN 2530-919-6477. SNL — H310A. No Security Clearance required to receive this APPI. USATAC.

APPI No. AT-156. Generator, 100 AMP, Alternator, Engine 18 Volt, 1000 RPM. Reversible Rotation, Belt Drive, Keyed hub for drive. Ord 7954720. This is a major component in Electrical System of various trucks in the military system. FSN 2920-818-8635. SNL — Multiple. No Security Clearance required to receive this APPI. USATAC.

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